



ANALYTICAL DATA REPORT

JMC Environmental Consultants
2109 Bridge Avenue
Building B
Point Pleasant, NJ 08742

Project Name: **ARSYNCO**
IAL Case Number: **E14-04618**

These data have been reviewed and accepted by:

A handwritten signature in black ink, appearing to read "Michael Leftin".

Michael H. Leftin, Ph.D.
Laboratory Director

This report shall not be reproduced, except in its entirety, without the written consent of Integrated Analytical Laboratories, LLC. The test results included in this report relate only to the samples analyzed. The results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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IAL is a NELAP accredited lab (TNI01284) and maintains certification in Connecticut (PH-0699), New Jersey (14751), New York (11402), and Pennsylvania (68-00773).

Sample Summary

IAL Case No.

E14-04618

Client JMC Environmental Consultants

Project ARSYNCO

Received On 5/21/2014@17:26

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Depth Top/Bottom</u>	<u>Sampling Time</u>	<u>Matrix</u>	<u># of Container</u>
04618-001	A-1 (0-2.0)	0/2	5/21/2014@09:45	Soil	1
04618-002	A-1 (2.0-4.0)	2/4	5/21/2014@09:47	Soil	1
04618-003	A-2 (0-2.0)	0/2	5/21/2014@10:15	Soil	1
04618-004	A-2 (2.0-4.0)	2/4	5/21/2014@10:18	Soil	1
04618-005	A-3 (0-2.0)	0/2	5/21/2014@10:47	Soil	1
04618-006	1-1 (0-2.0)	0/2.0	5/21/2014@11:18	Soil	1
04618-007	Y-49 (2.0-3.0)	2/3	5/21/2014@12:18	Soil	1
04618-008	Z-50 (2.0-3.0)	2/3	5/21/2014@13:15	Soil	1
04618-009	Y-51 (2.0-3.0)	2/3	5/21/2014@13:55	Soil	1
04618-010	D-1 (0-2.0)	0/2	5/21/2014@14:45	Soil	1
04618-011	C-2 (0-2.0)	0/2	5/21/2014@14:32	Soil	1
04618-012	FB-1	n/a	5/21/2014@14:55	Aqueous	2

INTEGRATED ANALYTICAL LABORATORIES, LLC.

TABLE OF CONTENTS

	<u>Page</u>
Qualifiers	1
Conformance / NonConformance Summaries	2
Results Summary Report	6
Analytical Results	9
PCBs	
Methodology Summary *	
PCBs	26
PCBs QC Summary	27
Surrogate Percent Recovery Summary	
LCS, MS/MSD Recovery Summary	
Method Blank Summary	
Initial Calibration Summary	
Initial/Continuing Calibration Verification Summary	
Retention Time Shift Summary	
PCBs Sample Data	52
Sample Quant Report and Chromatogram	
Method Blank Results	
Method Blank Quant Report and Chromatogram	
Sample Tracking	95
Chains of Custody	
Project Information	
Sample Receipt Verification	
Laboratory Chronicle	
Last Page of the Report	101

This report was finalized on June 09, 2014

* Methodology is included in the IAL Project Information Page

INTEGRATED ANALYTICAL LABORATORIES, LLC.

DEFINITIONS / QUALIFIERS

DATA QUALIFIERS

- B** Indicates the analyte was found in the associated method blank as well as in the sample.
It indicates probable laboratory contamination.
- C** Indicates analyte is a common laboratory contaminant.
- D** Indicates analyte was reported from diluted analysis.
- E** Identifies a compound concentration that exceeds the upper level of the calibration range of the instrument.
- J** Indicates an estimated value. This flag is used when the concentration in the sample is below the RL but above the MDL or for qualification of tentatively identified compounds.
- N** Presumptive evidence of a compound from the use of GC/MS library search.
- X** Indicates samples analyzed for total and dissolved metals differ at $\leq 20\%$ RPD.
- Z** Indicates internal standard failure. Sample results are either biased high or biased low.

REPORTING DEFINITIONS

RL Reporting Limit. The RL is determined by the lowest concentration in the calibration curve. For most Wet Chemistry methods, the RL is defined by using the PQL.

MDL Method Detection Limit as determined according to 40CFR Part 136 Appendix B.

PQL Practical Quantitation Limit. Usually defined as a value 3-5 times the MDL.

ND Indicates analyte was analyzed for but not detected above the MDL.

DF Dilution Factor

LCS Laboratory Control Sample

LCSD Laboratory Control Sample Duplicate

MS Matrix Spike

MSD Matrix Spike Duplicate

DUP Duplicate

CONFORMANCE / NON-CONFORMANCE SUMMARIES

INTEGRATED ANALYTICAL LABORATORIES, LLC.

CONFORMANCE / NONCONFORMANCE SUMMARY

Integrated Analytical Laboratories, LLC. received one (1) aqueous and eleven (11) soil sample(s) from JMC Environmental Consultants (IAL SDG # E14-04618, Project: ARSYNCO) on May 21, 2014 for the analysis of:

(12) TCL PCB

A review of the QA/QC measures for the analysis of the sample(s) contained in this report has been performed by:



Reviewed by

6/6/14
Date

SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E14-04618

PCB By 8082A

Batch ID: 140522-06	Matrix: Soil
----------------------------	---------------------

- QC**
- Calibration Curve met QC criteria.
 - Surrogate Percent Recovery met QC criteria.
 - Method Blank met QC criteria.
 - LCS Percent Recovery met QC criteria.
 - MS/MSD Percent Recovery met QC criteria.
 - RPD between MS/MSD met QC criteria.
 - The following samples were cleaned up using method 3660B to remove sulfur: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011
- E14-04618**
- All samples were extracted within holding time.
 - All samples were analyzed within holding time.
 - Retention Time Shift met QC criteria.
 - Samples 005 and 010 were run with 5x dilution and samples 003 and 011 were run with 50x dilution due to a high concentration of the target compounds. No dilution was performed for samples 001, 002, 004, 006, 007, 008, 009.

Nicole Lochn 5/23/2014
Signature E14-04618 0004

SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E14-04618

PCB By 8082A

Batch ID: 140522-09

Matrix: Aqueous

QC

- Calibration Curve met QC criteria.
- Surrogate Percent Recovery met QC criteria.
- Method Blank met QC criteria.
- LCS Percent Recovery met QC criteria.
- MS/MSD Percent Recovery met QC criteria.
- RPD between MS/MSD met QC criteria.
- The following samples were cleaned up using method 3660B to remove sulfur: 012
- The following samples were cleaned up using method 3665A: 012

E14-04618

- All samples were extracted within holding time.
- All samples were analyzed within holding time.
- Retention Time Shift met QC criteria.
- No dilution was performed for sample 012.

Nicole Lechner
Signature 5/23/2014
E14-04618 Date
0005

RESULTS SUMMARY REPORT

E14-04618 0006

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT

Client: JMC Environmental Consultants
Project: ARSYNCO
Lab Case No.: E14-04618

Lab ID:	04618-012								
Client ID:	FB-1								
Matrix:	Aqueous								
Sampled Date	5/21/14								
PARAMETER(Units)	Conc	Q	MDL						
PCB's (Units)	(mg/L)								
Aroclor-1016	ND	0.00002							
Aroclor-1221	ND	0.00002							
Aroclor-1232	ND	0.00002							
Aroclor-1242	ND	0.00002							
Aroclor-1248	ND	0.00002							
Aroclor-1254	ND	0.00002							
Aroclor-1260	ND	0.00002							
Aroclor-1262	ND	0.00002							
Aroclor-1268	ND	0.00002							
PCBs	ND	0.00002							
Lab ID:	04618-001	04618-002	04618-003	04618-004					
Client ID:	A-1 (0-2.0)	A-1 (2.0-4.0)	A-2 (0-2.0)	A-2 (2.0-4.0)					
Depth:	0/2	2/4	0/2	2/4					
Matrix:	Soil	Soil	Soil	Soil					
Sampled Date	5/21/14	5/21/14	5/21/14	5/21/14					
PARAMETER(Units)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
PCB's (Units)	(mg/Kg)		(mg/Kg)		(mg/Kg)		(mg/Kg)		
Aroclor-1016	ND	0.025	ND	0.045	ND	0.026	ND	0.020	
Aroclor-1221	ND	0.025	ND	0.045	ND	0.026	ND	0.020	
Aroclor-1232	ND	0.025	ND	0.045	ND	0.026	ND	0.020	
Aroclor-1242	ND	0.025	ND	0.045	ND	0.026	ND	0.020	
Aroclor-1248	1.30	0.025	0.661	0.045	189	D 1.27	0.062	0.020	
Aroclor-1254	ND	0.025	ND	0.045	ND	0.026	ND	0.020	
Aroclor-1260	ND	0.025	ND	0.045	ND	0.026	ND	0.020	
Aroclor-1262	ND	0.025	ND	0.045	ND	0.026	ND	0.020	
Aroclor-1268	ND	0.025	ND	0.045	ND	0.026	ND	0.020	
PCBs	1.30	0.025	0.661	0.045	189	D 1.27	0.062	0.020	

ND = Analyzed for but Not Detected at the MDL

D = The compound was reported from the Diluted analysis

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT
Client: JMC Environmental Consultants
Project: ARSYNCO
Lab Case No.: E14-04618

	Lab ID:	04618-005	04618-006	04618-007	04618-008
	Client ID:	A-3 (0-2.0)	1-1 (0-2.0)	Y-49 (2.0-3.0)	Z-50 (2.0-3.0)
	Depth:	0/2	0/2.0	2/3	2/3
	Matrix:	Soil	Soil	Soil	Soil
	Sampled Date	5/21/14	5/21/14	5/21/14	5/21/14
PARAMETER(Units)		Conc Q MDL	Conc Q MDL	Conc Q MDL	Conc Q MDL
PCB's (Units)		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aroclor-1016		ND 0.018	ND 0.026	ND 0.019	ND 0.077
Aroclor-1221		ND 0.018	ND 0.026	ND 0.019	ND 0.077
Aroclor-1232		ND 0.018	ND 0.026	ND 0.019	ND 0.077
Aroclor-1242		ND 0.018	ND 0.026	ND 0.019	ND 0.077
Aroclor-1248	23.3 D	0.092 0.739	0.026	ND 0.019	ND 0.077
Aroclor-1254		ND 0.018	ND 0.026	ND 0.019	ND 0.077
Aroclor-1260		ND 0.018	ND 0.026	ND 0.019	ND 0.077
Aroclor-1262		ND 0.018	ND 0.026	ND 0.019	ND 0.077
Aroclor-1268		ND 0.018	ND 0.026	ND 0.019	ND 0.077
PCBs	23.3 D	0.092 0.739	0.026	ND 0.019	ND 0.077
PCB's (Units)		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aroclor-1016		ND 0.018	ND 0.020	ND 0.021	
Aroclor-1221		ND 0.018	ND 0.020	ND 0.021	
Aroclor-1232		ND 0.018	ND 0.020	ND 0.021	
Aroclor-1242		ND 0.018	ND 0.020	ND 0.021	
Aroclor-1248	0.045 J	0.018 28.3 D	0.102	194 D 1.06	
Aroclor-1254		ND 0.018	ND 0.020	ND 0.021	
Aroclor-1260		ND 0.018	ND 0.020	ND 0.021	
Aroclor-1262		ND 0.018	ND 0.020	ND 0.021	
Aroclor-1268		ND 0.018	ND 0.020	ND 0.021	
PCBs	0.045 J	0.018 28.3 D	0.102	194 D 1.06	

ND = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value

below the RL and above the MDL for

target compounds. For non-target
compounds (i.e. TICs), qualifier indicates
estimated concentrations.

D = The compound was reported from the Diluted analysis

ANALYTICAL RESULTS

E14-04618 0009

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E14-04618-001
Client ID: A-1_(0-2
Date Received: 05/21/2014
Date Extracted: 05/22/2014
Date Analyzed: 05/22/2014
Data file: Y6447.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.59g
Matrix-Units: Soil-mg/Kg
Dilution Factor: 1
% Moisture: 41.7

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.061	0.025
Aroclor-1221	ND		0.061	0.025
Aroclor-1232	ND		0.061	0.025
Aroclor-1242	ND		0.061	0.025
Aroclor-1248	1.30		0.061	0.025
Aroclor-1254	ND		0.061	0.025
Aroclor-1260	ND		0.061	0.025
Aroclor-1262	ND		0.061	0.025
Aroclor-1268	ND		0.061	0.025
PCBs	1.30		0.061	0.025

D --- Dilution Performed

J --- Value Less than RL & greater than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

E14-04618 0010

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E14-04618-002

Client ID: A-1_(2.0

Date Received: 05/21/2014

Date Extracted: 05/22/2014

Date Analyzed: 05/22/2014

Data file: Y6450.D

GC Column: DB-5/DB1701P

Sample wt/vol: 5.64g

Matrix-Units: Soil-mg/Kg

Dilution Factor: 1

% Moisture: 68.3

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.112	0.045
Aroclor-1221	ND		0.112	0.045
Aroclor-1232	ND		0.112	0.045
Aroclor-1242	ND		0.112	0.045
Aroclor-1248	0.661		0.112	0.045
Aroclor-1254	ND		0.112	0.045
Aroclor-1260	ND		0.112	0.045
Aroclor-1262	ND		0.112	0.045
Aroclor-1268	ND		0.112	0.045
PCBs	0.661		0.112	0.045

D --- Dilution Performed

B --- Compound detected in Blank

J --- Value Less than RL & greater than MDL

C --- Common laboratory contamination

E --- Exceeds upper level of Calibration curve

E14-04618 0011

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E14-04618-003
Client ID: A-2_(0-2
Date Received: 05/21/2014
Date Extracted: 05/22/2014
Date Analyzed: 05/22/2014
Data file: Y6451.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.28g
Matrix-Units: Soil-mg/Kg
Dilution Factor: 1
% Moisture: 40.5

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.064	0.026
Aroclor-1221	ND		0.064	0.026
Aroclor-1232	ND		0.064	0.026
Aroclor-1242	ND		0.064	0.026
Aroclor-1248	136	E	0.064	0.026
Aroclor-1254	ND		0.064	0.026
Aroclor-1260	ND		0.064	0.026
Aroclor-1262	ND		0.064	0.026
Aroclor-1268	ND		0.064	0.026
PCBs	136	E	0.064	0.026

D --- Dilution Performed

B --- Compound detected in Blank

J --- Value Less than RL & greater than MDL

C --- Common laboratory contamination

E --- Exceeds upper level of Calibration curve

E14-04618 0012

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E14-04618-003DL
Client ID: A-2_(0-2
Date Received: 05/21/2014
Date Extracted: 05/22/2014
Date Analyzed: 05/23/2014
Data file: Y6475.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.28g
Matrix-Units: Soil-mg/Kg
Dilution Factor: 50
% Moisture: 40.5

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		3.18	1.27
Aroclor-1221	ND		3.18	1.27
Aroclor-1232	ND		3.18	1.27
Aroclor-1242	ND		3.18	1.27
Aroclor-1248	189	D	3.18	1.27
Aroclor-1254	ND		3.18	1.27
Aroclor-1260	ND		3.18	1.27
Aroclor-1262	ND		3.18	1.27
Aroclor-1268	ND		3.18	1.27
PCBs	189	D	3.18	1.27

D --- Dilution Performed

J --- Value Less than RL & greater than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E14-04618-004

Client ID: A-2_(2.0)

Date Received: 05/21/2014

Date Extracted: 05/22/2014

Date Analyzed: 05/22/2014

Data file: Y6452.D

GC Column: DB-5/DB1701P

Sample wt/vol: 5.41g

Matrix-Units: Soil-mg/Kg

Dilution Factor: 1

% Moisture: 24.6

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.049	0.020
Aroclor-1221	ND		0.049	0.020
Aroclor-1232	ND		0.049	0.020
Aroclor-1242	ND		0.049	0.020
Aroclor-1248	0.062		0.049	0.020
Aroclor-1254	ND		0.049	0.020
Aroclor-1260	ND		0.049	0.020
Aroclor-1262	ND		0.049	0.020
Aroclor-1268	ND		0.049	0.020
PCBs	0.062		0.049	0.020

D --- Dilution Performed

J --- Value Less than RL & greater than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

E14-04618 0014

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E14-04618-005

Client ID: A-3_(0-2)

Date Received: 05/21/2014

Date Extracted: 05/22/2014

Date Analyzed: 05/22/2014

Data file: Y6453.D

GC Column: DB-5/DB1701P

Sample wt/vol: 5.77g

Matrix-Units: Soil-mg/Kg

Dilution Factor: 1

% Moisture: 24.6

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.046	0.018
Aroclor-1221	ND		0.046	0.018
Aroclor-1232	ND		0.046	0.018
Aroclor-1242	ND		0.046	0.018
Aroclor-1248	19.1	E	0.046	0.018
Aroclor-1254	ND		0.046	0.018
Aroclor-1260	ND		0.046	0.018
Aroclor-1262	ND		0.046	0.018
Aroclor-1268	ND		0.046	0.018
PCBs	19.1	E	0.046	0.018

D --- Dilution Performed

B --- Compound detected in Blank

J --- Value Less than RL & greater than MDL

C --- Common laboratory contamination

E --- Exceeds upper level of Calibration curve

E14-04618 0015

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E14-04618-005DL
Client ID: A-3_(0-2
Date Received: 05/21/2014
Date Extracted: 05/22/2014
Date Analyzed: 05/23/2014
Data file: Y6478.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.77g
Matrix-Units: Soil-mg/Kg
Dilution Factor: 5
% Moisture: 24.6

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.230	0.092
Aroclor-1221	ND		0.230	0.092
Aroclor-1232	ND		0.230	0.092
Aroclor-1242	ND		0.230	0.092
Aroclor-1248	23.3	D	0.230	0.092
Aroclor-1254	ND		0.230	0.092
Aroclor-1260	ND		0.230	0.092
Aroclor-1262	ND		0.230	0.092
Aroclor-1268	ND		0.230	0.092
PCBs	23.3	D	0.230	0.092

D --- Dilution Performed

J --- Value Less than RL & greater than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E14-04618-006

Client ID: 1-1_(0-2

Date Received: 05/21/2014

Date Extracted: 05/22/2014

Date Analyzed: 05/22/2014

Data file: Y6454.D

GC Column: DB-5/DB1701P

Sample wt/vol: 5.86g

Matrix-Units: Soil-mg/Kg

Dilution Factor: 1

% Moisture: 46.7

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.064	0.026
Aroclor-1221	ND		0.064	0.026
Aroclor-1232	ND		0.064	0.026
Aroclor-1242	ND		0.064	0.026
Aroclor-1248	0.739		0.064	0.026
Aroclor-1254	ND		0.064	0.026
Aroclor-1260	ND		0.064	0.026
Aroclor-1262	ND		0.064	0.026
Aroclor-1268	ND		0.064	0.026
PCBs	0.739		0.064	0.026

D --- Dilution Performed

B --- Compound detected in Blank

J --- Value Less than RL & greater than MDL

C --- Common laboratory contamination

E --- Exceeds upper level of Calibration curve

E14-04618 0017

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E14-04618-007

Client ID: Y-49_(2.

Date Received: 05/21/2014

Date Extracted: 05/22/2014

Date Analyzed: 05/22/2014

Data file: Y6455.D

GC Column: DB-5/DB1701P

Sample wt/vol: 5.52g

Matrix-Units: Soil-mg/Kg

Dilution Factor: 1

% Moisture: 25.3

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.049	0.019
Aroclor-1221	ND		0.049	0.019
Aroclor-1232	ND		0.049	0.019
Aroclor-1242	ND		0.049	0.019
Aroclor-1248	ND		0.049	0.019
Aroclor-1254	ND		0.049	0.019
Aroclor-1260	ND		0.049	0.019
Aroclor-1262	ND		0.049	0.019
Aroclor-1268	ND		0.049	0.019
PCBs	ND		0.049	0.019

D --- Dilution Performed

B --- Compound detected in Blank

J --- Value Less than RL & greater than MDL

C --- Common laboratory contamination

E --- Exceeds upper level of Calibration curve

E14-04618 0018

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E14-04618-008

Client ID: Z-50_(2.

Date Received: 05/21/2014

Date Extracted: 05/22/2014

Date Analyzed: 05/22/2014

Data file: Y6456.D

GC Column: DB-5/DB1701P

Sample wt/vol: 5.81g

Matrix-Units: Soil-mg/Kg

Dilution Factor: 1

% Moisture: 82.0

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.191	0.077
Aroclor-1221	ND		0.191	0.077
Aroclor-1232	ND		0.191	0.077
Aroclor-1242	ND		0.191	0.077
Aroclor-1248	ND		0.191	0.077
Aroclor-1254	ND		0.191	0.077
Aroclor-1260	ND		0.191	0.077
Aroclor-1262	ND		0.191	0.077
Aroclor-1268	ND		0.191	0.077
PCBs	ND		0.191	0.077

D --- Dilution Performed

B --- Compound detected in Blank

J --- Value Less than RL & greater than MDL

C --- Common laboratory contamination

E --- Exceeds upper level of Calibration curve

E14-04618 0019

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E14-04618-009

Client ID: Y-51_(2.

Date Received: 05/21/2014

Date Extracted: 05/22/2014

Date Analyzed: 05/22/2014

Data file: Y6457.D

GC Column: DB-5/DB1701P

Sample wt/vol: 5.74g

Matrix-Units: Soil-mg/Kg

Dilution Factor: 1

% Moisture: 23.1

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.045	0.018
Aroclor-1221	ND		0.045	0.018
Aroclor-1232	ND		0.045	0.018
Aroclor-1242	ND		0.045	0.018
Aroclor-1248	0.045	J	0.045	0.018
Aroclor-1254	ND		0.045	0.018
Aroclor-1260	ND		0.045	0.018
Aroclor-1262	ND		0.045	0.018
Aroclor-1268	ND		0.045	0.018
PCBs	0.045	J	0.045	0.018

D --- Dilution Performed

B --- Compound detected in Blank

J --- Value Less than RL & greater than MDL

C --- Common laboratory contamination

E --- Exceeds upper level of Calibration curve

E14-04618 0020

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E14-04618-010

Client ID: D-1_(0-2

Date Received: 05/21/2014

Date Extracted: 05/22/2014

Date Analyzed: 05/22/2014

Data file: Y6458.D

GC Column: DB-5/DB1701P

Sample wt/vol: 5.64g

Matrix-Units: Soil-mg/Kg

Dilution Factor: 1

% Moisture: 30.6

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.051	0.020
Aroclor-1221	ND		0.051	0.020
Aroclor-1232	ND		0.051	0.020
Aroclor-1242	ND		0.051	0.020
Aroclor-1248	24.3	E	0.051	0.020
Aroclor-1254	ND		0.051	0.020
Aroclor-1260	ND		0.051	0.020
Aroclor-1262	ND		0.051	0.020
Aroclor-1268	ND		0.051	0.020
PCBs	24.3	E	0.051	0.020

D --- Dilution Performed

B --- Compound detected in Blank

J --- Value Less than RL & greater than MDL

C --- Common laboratory contamination

E --- Exceeds upper level of Calibration curve

E14-04618 0021

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E14-04618-010DL
Client ID: D-1_(0-2
Date Received: 05/21/2014
Date Extracted: 05/22/2014
Date Analyzed: 05/23/2014
Data file: Y6479.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.64g
Matrix-Units: Soil-mg/Kg
Dilution Factor: 5
% Moisture: 30.6

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.255	0.102
Aroclor-1221	ND		0.255	0.102
Aroclor-1232	ND		0.255	0.102
Aroclor-1242	ND		0.255	0.102
Aroclor-1248	28.3	D	0.255	0.102
Aroclor-1254	ND		0.255	0.102
Aroclor-1260	ND		0.255	0.102
Aroclor-1262	ND		0.255	0.102
Aroclor-1268	ND		0.255	0.102
PCBs	28.3	D	0.255	0.102

D --- Dilution Performed

J --- Value Less than RL & greater than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E14-04618-011
Client ID: C-2_(0-2
Date Received: 05/21/2014
Date Extracted: 05/22/2014
Date Analyzed: 05/22/2014
Data file: Y6459.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.86g
Matrix-Units: Soil-mg/Kg
Dilution Factor: 1
% Moisture: 35.9

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.053	0.021
Aroclor-1221	ND		0.053	0.021
Aroclor-1232	ND		0.053	0.021
Aroclor-1242	ND		0.053	0.021
Aroclor-1248	178	E	0.053	0.021
Aroclor-1254	ND		0.053	0.021
Aroclor-1260	ND		0.053	0.021
Aroclor-1262	ND		0.053	0.021
Aroclor-1268	ND		0.053	0.021
PCBs	178	E	0.053	0.021

D --- Dilution Performed

J --- Value Less than RL & greater than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E14-04618-011DL
Client ID: C-2_(0-2
Date Received: 05/21/2014
Date Extracted: 05/22/2014
Date Analyzed: 05/23/2014
Data file: Y6480.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.86g
Matrix-Units: Soil-mg/Kg
Dilution Factor: 50
% Moisture: 35.9

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		2.66	1.06
Aroclor-1221	ND		2.66	1.06
Aroclor-1232	ND		2.66	1.06
Aroclor-1242	ND		2.66	1.06
Aroclor-1248	194	D	2.66	1.06
Aroclor-1254	ND		2.66	1.06
Aroclor-1260	ND		2.66	1.06
Aroclor-1262	ND		2.66	1.06
Aroclor-1268	ND		2.66	1.06
PCBs	194	D	2.66	1.06

D --- Dilution Performed

J --- Value Less than RL & greater than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E14-04618-012

Client ID: FB-1

Date Received: 05/21/2014

Date Extracted: 05/22/2014

Date Analyzed: 05/23/2014

Data file: Y6485.D

GC Column: DB-5/DB1701P

Sample wt/vol: 1000ml

Matrix-Units: Aqueous-mg/L

Dilution Factor: 1

% Moisture: 100

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.00005	0.00002
Aroclor-1221	ND		0.00005	0.00002
Aroclor-1232	ND		0.00005	0.00002
Aroclor-1242	ND		0.00005	0.00002
Aroclor-1248	ND		0.00005	0.00002
Aroclor-1254	ND		0.00005	0.00002
Aroclor-1260	ND		0.00005	0.00002
Aroclor-1262	ND		0.00005	0.00002
Aroclor-1268	ND		0.00005	0.00002
PCBs	ND		0.00005	0.00002

D --- Dilution Performed

J --- Value Less than RL & greater than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

E14-04618 0025

PCB DATA

E14-04618 0026

PCB QC SUMMARY

E14-04618 0027

PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 05/22/2014

Client ID	Lab	Sample ID	Matrix	TCMX 1		DCB 1		TCMX 2		DCB 2	
				% rec	#	% rec	#	% rec	#	% rec	#
PCB		BLKS140522-06	SOIL	106		97		100		100	
PCB		LCSS140522-06	SOIL	107		99		101		93	
A-1_(0-2)		E14-04618-001	SOIL	117		111		115		106	
PCB		04618-001MS	SOIL	78		74		77		80	
PCB		04618-001MSD	SOIL	87		91		85		103	
A-1_(2.0)		E14-04618-002	SOIL	132		117		131		115	
A-2_(0-2)		E14-04618-003	SOIL	115		121		106		121	
A-2_(2.0)		E14-04618-004	SOIL	111		100		108		98	
A-3_(0-2)		E14-04618-005	SOIL	101		103		104		109	
1-1_(0-2)		E14-04618-006	SOIL	124		111		120		113	
Y-49_(2.)		E14-04618-007	SOIL	114		101		112		101	
Z-50_(2.)		E14-04618-008	SOIL	149		138		149		140	
Y-51_(2.)		E14-04618-009	SOIL	116		102		113		113	
D-1_(0-2)		E14-04618-010	SOIL	105		135		105		117	
C-2_(0-2)		E14-04618-011	SOIL	119		105		101		131	
A-2_(0-2)		E14-04618-003DL	SOIL	145		135		145		140	
A-3_(0-2)		E14-04618-005DL	SOIL	120		115		120		110	
D-1_(0-2)		E14-04618-010DL	SOIL	126		139		123		120	
C-2_(0-2)		E14-04618-011DL	SOIL	135		145		115		130	

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

Soil

30-150

Aqueous/Leachate

30-150

30-150

30-150

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 05/23/2014

Client ID	Sample ID	Matrix	TCMX 1		DCB 1		TCMX 2		DCB 2	
			% rec	#	% rec	#	% rec	#	% rec	#
PCB	BLKA140522-09	AQUEOUS	104		89		99		87	
PCB	LCSA140522-09	AQUEOUS	90		84		85		79	
FB-05161	E14-04476-003	AQUEOUS	96		87		92		95	
FB-1	E14-04618-012	AQUEOUS	91		82		86		79	

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

Soil Aqueous/Leachate

30-150 30-150

30-150 30-150

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

SOIL PCB LCS ACCURACY RECOVERY

Matrix spike Lab sample ID: LCSS140522-06

Date Extracted: 05/22/2014

Date Analyzed: 05/22/2014

GC Column: DB-5/DB1701P

Sample wt/vol: 5g

Matrix-Units: Soil-mg/Kg

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500	0.0	563.1	113	40 - 140
Aroclor-1260	500	0.0	615.5	123	40 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

NC Non calculable

Spike Recovery: 0 out of 2 outside limits

AQUEOUS PCB LCS ACCURACY RECOVERY

Matrix spike Lab sample ID: LCSA140522-09

Date Extracted: 05/22/2014

Date Analyzed: 05/23/2014

GC Column: DB-5/DB1701P

Sample wt/vol: 1000ml

Matrix-Units: Aqueous- μ g/L

Compound	SPIKE ADDED (μ g/L)	SAMPLE CONC. (μ g/L)	MS CONC. (μ g/L)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500	0.0	470.6	94	40 - 140
Aroclor-1260	500	0.0	518.4	104	40 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

NC Non calculable

Spike Recovery: 0 out of 2 outside limits

SOIL PCB MS/MSD ACCURACY RECOVERY

Matrix spike Lab sample ID: E14-04618-001

Date Extracted: 05/22/2014

Date Analyzed: 05/22/2014

GC Column: DB-5/DB1701P

Sample wt/vol: 5.59g

Matrix-Units: Soil-mg/Kg

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500	0.0	442.9	89	40 - 140
Aroclor-1260	500	0.0	482.4	96	40 - 140

Compound	SAMPLE CONC. (ug/Kg)	MSD CONC. (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	0.0	507.4	101	13	50	40 - 140
Aroclor-1260	0.0	558.9	112	15	50	40 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

NC Non calculable

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

AQUEOUS PCB MS/MSD ACCURACY RECOVERY

Matrix spike Lab sample ID: E14-04271-003

Date Extracted: 05/13/2014

Date Analyzed: 05/15/2014

GC Column: DB-5/DB1701P

Sample wt/vol: 1000ml

Matrix-Units: Aqueous- μ g/L

Compound	SPIKE ADDED (μ g/L)	SAMPLE CONC. (μ g/L)	MS CONC. (μ g/L)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500	0.0	439.3	88	40 - 140
Aroclor-1260	500	0.0	463.0	93	40 - 140

Compound	SAMPLE CONC. (μ g/L)	MSD CONC. (μ g/L)	MSD % # REC	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	0.0	418.0	84	5	50	40 - 140
Aroclor-1260	0.0	451.6	90	3	50	40 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

NC Non calculable

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

PCB METHOD BLANK SUMMARY

Lab File ID: Y6445.D

Instrument ID: GC-Y

Date Extracted: 05/22/2014

Matrix: SOIL

Date Analyzed: 05/22/2014

Time Analyzed: 14:49

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
PCB	LCSS140522-06	05/22/2014	15:06
A-1_(0-2	E14-04618-001	05/22/2014	15:31
PCB	04618-001MS	05/22/2014	15:49
PCB	04618-001MSD	05/22/2014	16:06
A-1_(2.0	E14-04618-002	05/22/2014	16:28
A-2_(0-2	E14-04618-003	05/22/2014	16:46
A-2_(2.0	E14-04618-004	05/22/2014	17:56
A-3_(0-2	E14-04618-005	05/22/2014	18:13
1-1_(0-2	E14-04618-006	05/22/2014	18:30
Y-49_(2.	E14-04618-007	05/22/2014	18:48
Z-50_(2.	E14-04618-008	05/22/2014	19:05
Y-51_(2.	E14-04618-009	05/22/2014	19:23
D-1_(0-2	E14-04618-010	05/22/2014	19:41
C-2_(0-2	E14-04618-011	05/22/2014	19:58
A-2_(0-2	E14-04618-003DL	05/23/2014	04:06
A-3_(0-2	E14-04618-005DL	05/23/2014	09:20
D-1_(0-2	E14-04618-010DL	05/23/2014	09:37
C-2_(0-2	E14-04618-011DL	05/23/2014	09:55

PCB METHOD BLANK SUMMARY

Lab File ID: Y6280.D Instrument ID: GC-Y
Date Extracted: 05/13/2014 Matrix: AQUEOUS
Date Analyzed: 05/15/2014 Time Analyzed: 10:20

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
PCB	LCSA140513-07	05/15/2014	10:37
FB050614	E14-04129-004	05/15/2014	10:54
FB050714	E14-04129-009	05/15/2014	11:12
FIELD_BL	E14-04130-005	05/15/2014	11:29
MW-6	E14-04271-003	05/15/2014	11:47
MW-7	E14-04271-005	05/15/2014	12:04
FB-1	E14-04271-007	05/15/2014	12:21
FB-2	E14-04271-008	05/15/2014	12:39
LOT_ID_5	E14-04069-001	05/15/2014	12:56
LOT_ID_5	E14-04069-002	05/15/2014	13:14
LOT_ID_5	E14-04069-003	05/15/2014	13:31
PCB	04271-003MS	05/16/2014	08:59
PCB	04271-003MSD	05/16/2014	09:17

PCB METHOD BLANK SUMMARY

Lab File ID: Y6482.D

Instrument ID: GC-Y

Date Extracted: 05/22/2014

Matrix: AQUEOUS

Date Analyzed: 05/23/2014

Time Analyzed: 10:54

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
PCB	LCSA140522-09	05/23/2014	11:12
FB-05161	E14-04476-003	05/23/2014	11:29
FB-1	E14-04618-012	05/23/2014	11:47

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 05/14/2014

Instrument ID: GC-Y
GC Column (1st): DB-5

Data File: Y6260.D Y6259.D Y6258.D Y6257.D Y6256.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.24	3.24	3.24	3.24	3.24	3.24	3.17	3.31
Aroclor-1016 {2}	4.07	4.07	4.07	4.07	4.07	4.07	4.00	4.14
Aroclor-1016 {3}	4.62	4.62	4.63	4.62	4.62	4.62	4.55	4.69
Aroclor-1016 {4}	5.13	5.13	5.13	5.13	5.13	5.13	5.06	5.20
Aroclor-1016 {5}	5.52	5.53	5.53	5.53	5.53	5.53	5.46	5.60
Aroclor-1221			2.14				2.07	2.21
Aroclor-1221 {2}			3.04				2.97	3.11
Aroclor-1221 {3}			3.16				3.09	3.23
Aroclor-1221 {4}			3.24				3.17	3.31
Aroclor-1221 {5}			3.83				3.76	3.90
Aroclor-1232			3.24				3.17	3.31
Aroclor-1232 {2}			4.07				4.00	4.14
Aroclor-1232 {3}			4.74				4.67	4.81
Aroclor-1232 {4}			5.33				5.26	5.40
Aroclor-1232 {5}			5.52				5.45	5.59
Aroclor-1242			4.07				4.00	4.14
Aroclor-1242 {2}			5.01				4.94	5.08
Aroclor-1242 {3}			5.33				5.26	5.40
Aroclor-1242 {4}			6.03				5.96	6.10
Aroclor-1242 {5}			6.30				6.23	6.37
Aroclor-1248			4.47				4.39	4.55
Aroclor-1248 {2}			5.01				4.93	5.09
Aroclor-1248 {3}			5.33				5.25	5.41
Aroclor-1248 {4}			6.03				5.95	6.11
Aroclor-1248 {5}			6.30				6.22	6.38
Aroclor-1254			6.42				6.34	6.50
Aroclor-1254 {2}			6.86				6.78	6.94
Aroclor-1254 {3}			7.02				6.93	7.11
Aroclor-1254 {4}			7.46				7.37	7.55
Aroclor-1254 {5}			8.31				8.22	8.40
Aroclor-1260	8.31	8.31	8.31	8.31	8.31	8.31	7.41	9.21
Aroclor-1260 {2}	8.98	8.98	8.98	8.98	8.98	8.98	8.08	9.88
Aroclor-1260 {3}	9.45	9.46	9.46	9.46	9.46	9.46	8.56	10.36
Aroclor-1260 {4}	9.94	9.94	9.94	9.94	9.94	9.94	9.04	10.84
Aroclor-1260 {5}	11.00	11.00	11.00	11.00	11.00	11.00	10.10	11.90

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 05/14/2014 Instrument ID: GC-Y
 GC Column (1st): DB-5

Data File: Y6260.D Y6259.D Y6258.D Y6257.D Y6256.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	405072	380588	376655	339714	353301	371066	6.84
Aroclor-1016 {2}	575844	520812	506886	457480	477205	507645	8.96
Aroclor-1016 {3}	755692	676005	657732	596953	626143	662505	9.09
Aroclor-1016 {4}	363329	352078	331945	296702	309905	330792	8.43
Aroclor-1016 {5}	552369	531145	526100	479211	504485	518662	5.37
Aroclor-1221			150724				
Aroclor-1221 {2}			230266				
Aroclor-1221 {3}			144553				
Aroclor-1221 {4}			530402				
Aroclor-1221 {5}			123623				
Aroclor-1232			376008				
Aroclor-1232 {2}			221503				
Aroclor-1232 {3}			194785				
Aroclor-1232 {4}			200437				
Aroclor-1232 {5}			269483				
Aroclor-1242			409049				
Aroclor-1242 {2}			248553				
Aroclor-1242 {3}			336993				
Aroclor-1242 {4}			584792				
Aroclor-1242 {5}			539775				
Aroclor-1248			813307				
Aroclor-1248 {2}			445404				
Aroclor-1248 {3}			569247				
Aroclor-1248 {4}			1024512				
Aroclor-1248 {5}			770357				
Aroclor-1254			1064144				
Aroclor-1254 {2}			680884				
Aroclor-1254 {3}			1314749				
Aroclor-1254 {4}			1391452				
Aroclor-1254 {5}			1313043				
Aroclor-1260	1729439	1485594	1587037	1469912	1549345	1564265	6.64
Aroclor-1260 {2}	835813	705958	725840	666364	703722	727539	8.83
Aroclor-1260 {3}	1899254	1703757	1871128	1726696	1816385	1803444	4.78
Aroclor-1260 {4}	1006124	908270	966673	901239	959006	948262	4.60
Aroclor-1260 {5}	401961	420142	432647	392508	420440	413540	3.89
Average %RSD						6.74	

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 05/14/2014

Instrument ID: GC-Y
GC Column (2nd): DB-1701P

Data File: Y6260.C Y6259.C Y6258.C Y6257.C Y6256.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.71	3.71	3.71	3.71	3.71	3.71	3.64	3.78
Aroclor-1016 {2}	4.31	4.31	4.31	4.31	4.31	4.31	4.24	4.38
Aroclor-1016 {3}	5.06	5.06	5.06	5.06	5.06	5.06	4.99	5.13
Aroclor-1016 {4}	5.26	5.27	5.27	5.27	5.26	5.26	5.19	5.33
Aroclor-1016 {5}	5.44	5.44	5.44	5.44	5.44	5.44	5.37	5.51
Aroclor-1221			2.40				2.33	2.47
Aroclor-1221 {2}			3.40				3.33	3.47
Aroclor-1221 {3}			3.63				3.56	3.70
Aroclor-1221 {4}			3.72				3.65	3.79
Aroclor-1221 {5}			5.06				4.99	5.13
Aroclor-1232			3.71				3.64	3.78
Aroclor-1232 {2}			4.69				4.62	4.76
Aroclor-1232 {3}			5.26				5.19	5.33
Aroclor-1232 {4}			5.44				5.37	5.51
Aroclor-1232 {5}			6.04				5.97	6.11
Aroclor-1242			4.69				4.62	4.76
Aroclor-1242 {2}			5.44				5.37	5.51
Aroclor-1242 {3}			6.04				5.97	6.11
Aroclor-1242 {4}			6.19				6.12	6.26
Aroclor-1242 {5}			6.73				6.66	6.80
Aroclor-1248			5.06				4.98	5.14
Aroclor-1248 {2}			5.64				5.56	5.72
Aroclor-1248 {3}			6.04				5.96	6.12
Aroclor-1248 {4}			6.19				6.11	6.27
Aroclor-1248 {5}			6.54				6.46	6.62
Aroclor-1254			7.03				6.95	7.11
Aroclor-1254 {2}			7.61				7.53	7.69
Aroclor-1254 {3}			8.23				8.14	8.32
Aroclor-1254 {4}			8.46				8.37	8.55
Aroclor-1254 {5}			9.04				8.95	9.13
Aroclor-1260	7.79	7.80	7.80	7.80	7.80	7.80	6.90	8.70
Aroclor-1260 {2}	8.05	8.05	8.05	8.05	8.05	8.05	7.15	8.95
Aroclor-1260 {3}	9.64	9.64	9.64	9.64	9.64	9.64	8.74	10.54
Aroclor-1260 {4}	10.14	10.14	10.14	10.14	10.14	10.14	9.24	11.04
Aroclor-1260 {5}	10.73	10.73	10.73	10.73	10.73	10.73	9.83	11.63

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 05/14/2014

Instrument ID: GC-Y
GC Column (2nd): DB-1701P

Data File: Y6260.C Y6259.C Y6258.C Y6257.C Y6256.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	959661	888277	870589	779764	799511	859560	8.42
Aroclor-1016 {2}	2012350	1725272	1688491	1499270	1542940	1693665	11.92
Aroclor-1016 {3}	4396398	3788607	3846956	3464574	3605684	3820444	9.31
Aroclor-1016 {4}	2123740	1700121	1644552	1467366	1508221	1688800	15.47
Aroclor-1016 {5}	1468546	1305662	1297194	1163432	1200684	1287104	9.20
Aroclor-1221			368761				
Aroclor-1221 {2}			539715				
Aroclor-1221 {3}			334423				
Aroclor-1221 {4}			1239957				
Aroclor-1221 {5}			233081				
Aroclor-1232			872426				
Aroclor-1232 {2}			328214				
Aroclor-1232 {3}			731858				
Aroclor-1232 {4}			563618				
Aroclor-1232 {5}			786617				
Aroclor-1242			604384				
Aroclor-1242 {2}			1047486				
Aroclor-1242 {3}			1369092				
Aroclor-1242 {4}			1167761				
Aroclor-1242 {5}			2247487				
Aroclor-1248			1916153				
Aroclor-1248 {2}			2809835				
Aroclor-1248 {3}			2076013				
Aroclor-1248 {4}			1930449				
Aroclor-1248 {5}			1084222				
Aroclor-1254			2562019				
Aroclor-1254 {2}			2083901				
Aroclor-1254 {3}			2084309				
Aroclor-1254 {4}			1329669				
Aroclor-1254 {5}			3233387				
Aroclor-1260	1665871	1632825	1522129	1345797	1372593	1507843	9.69
Aroclor-1260 {2}	2613622	2302813	2150793	1909837	1964946	2188402	12.98
Aroclor-1260 {3}	2370714	2175920	1999446	1796666	1861909	2040931	11.50
Aroclor-1260 {4}	5155012	4488945	4193747	3844328	4068586	4350124	11.65
Aroclor-1260 {5}	3837518	3250424	3129663	2843718	3009625	3214190	11.81
Average %RSD						11.19	

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 05/14/2014

Instrument ID: GC-Y
GC Column (1st): DB-5

Data File: Y6260.D Y6259.D Y6258.D Y6257.D Y6256.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			8.60				8.48	8.72
Aroclor-1262 {2}			9.46				9.34	9.58
Aroclor-1262 {3}			10.09				9.97	10.21
Aroclor-1262 {4}			10.18				10.06	10.30
Aroclor-1262 {5}			11.00				10.88	11.12
Aroclor-1268			10.09				9.97	10.21
Aroclor-1268 {2}			10.17				10.05	10.29
Aroclor-1268 {3}			10.64				10.52	10.76
Aroclor-1268 {4}			11.00				10.88	11.12
Aroclor-1268 {5}			11.60				11.48	11.72

GC Column (2nd): DB-1701P

Data File: Y6260.C Y6259.C Y6258.C Y6257.C Y6256.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			9.64				9.52	9.76
Aroclor-1262 {2}			10.14				10.02	10.26
Aroclor-1262 {3}			10.64				10.52	10.76
Aroclor-1262 {4}			10.73				10.61	10.85
Aroclor-1262 {5}			11.33				11.21	11.45
Aroclor-1268			10.64				10.52	10.76
Aroclor-1268 {2}			10.72				10.60	10.84
Aroclor-1268 {3}			10.98				10.86	11.10
Aroclor-1268 {4}			11.77				11.65	11.89
Aroclor-1268 {5}			12.19				12.07	12.31

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 05/14/2014

Instrument ID: GC-Y

GC Column (1st): DB-5

Data File: Y6260.D Y6259.D Y6258.D Y6257.D Y6256.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			1265028				
Aroclor-1262 {2}			2569783				
Aroclor-1262 {3}			919043				
Aroclor-1262 {4}			1089867				
Aroclor-1262 {5}			883046				
Aroclor-1268			2569944				
Aroclor-1268 {2}			2832705				
Aroclor-1268 {3}			2255810				
Aroclor-1268 {4}			959117				
Aroclor-1268 {5}			7217212				

GC Column (2nd): DB-1701P

Data File: Y6260.C Y6259.C Y6258.C Y6257.C Y6256.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			2671025				
Aroclor-1262 {2}			5916536				
Aroclor-1262 {3}			2003215				
Aroclor-1262 {4}			4153103				
Aroclor-1262 {5}			902199				
Aroclor-1268			5818635				
Aroclor-1268 {2}			5937596				
Aroclor-1268 {3}			4730980				
Aroclor-1268 {4}			2122350				
Aroclor-1268 {5}			14505329				

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 05/22/2014

Instrument ID: GC-Y

Data File: Y6444.D

GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.25	3.17	3.31	371066	396458	6.84
Aroclor-1016 {2}	4.08	4.00	4.14	507645	526492	3.71
Aroclor-1016 {3}	4.63	4.55	4.69	662505	694038	4.76
Aroclor-1016 {4}	5.14	5.06	5.20	330792	355336	7.42
Aroclor-1016 {5}	5.53	5.46	5.60	518662	564976	8.93
Aroclor-1260	8.31	7.41	9.21	1564265	1762751	12.69
Aroclor-1260 {2}	8.99	8.08	9.88	727539	762484	4.80
Aroclor-1260 {3}	9.46	8.56	10.36	1803444	2110953	17.05
Aroclor-1260 {4}	9.95	9.04	10.84	948262	1091162	15.07
Aroclor-1260 {5}	11.01	10.10	11.90	413540	481729	16.49

Data File: Y6444.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.72	3.64	3.78	859560	918485	6.86
Aroclor-1016 {2}	4.31	4.24	4.38	1693665	1756224	3.69
Aroclor-1016 {3}	5.06	4.99	5.13	3820444	4056514	6.18
Aroclor-1016 {4}	5.27	5.19	5.33	1688800	1761992	4.33
Aroclor-1016 {5}	5.44	5.37	5.51	1287104	1370939	6.51
Aroclor-1260	7.80	6.90	8.70	1507843	1619589	7.41
Aroclor-1260 {2}	8.06	7.15	8.95	2188402	2330617	6.50
Aroclor-1260 {3}	9.64	8.74	10.54	2040931	2194267	7.51
Aroclor-1260 {4}	10.15	9.24	11.04	4350124	4646533	6.81
Aroclor-1260 {5}	10.74	9.83	11.63	3214190	3429183	6.69

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 05/22/2014

Instrument ID: GC-Y

Data File: Y6460.D

GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.25	3.17	3.31	371066	387162	4.34
Aroclor-1016 {2}	4.08	4.00	4.14	507645	512799	1.02
Aroclor-1016 {3}	4.63	4.55	4.69	662505	680490	2.71
Aroclor-1016 {4}	5.14	5.06	5.20	330792	343705	3.90
Aroclor-1016 {5}	5.53	5.46	5.60	518662	545575	5.19
Aroclor-1260	8.31	7.41	9.21	1564265	1643210	5.05
Aroclor-1260 {2}	8.99	8.08	9.88	727539	692037	4.88
Aroclor-1260 {3}	9.46	8.56	10.36	1803444	1907047	5.74
Aroclor-1260 {4}	9.95	9.04	10.84	948262	993083	4.73
Aroclor-1260 {5}	11.01	10.10	11.90	413540	453891	9.76

Data File: Y6460.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.72	3.64	3.78	859560	907791	5.61
Aroclor-1016 {2}	4.31	4.24	4.38	1693665	1724448	1.82
Aroclor-1016 {3}	5.06	4.99	5.13	3820444	3963595	3.75
Aroclor-1016 {4}	5.27	5.19	5.33	1688800	1684279	0.27
Aroclor-1016 {5}	5.44	5.37	5.51	1287104	1306384	1.50
Aroclor-1260	7.80	6.90	8.70	1507843	1733098	14.94
Aroclor-1260 {2}	8.05	7.15	8.95	2188402	2145624	1.95
Aroclor-1260 {3}	9.64	8.74	10.54	2040931	2055326	0.71
Aroclor-1260 {4}	10.15	9.24	11.04	4350124	4611035	6.00
Aroclor-1260 {5}	10.74	9.83	11.63	3214190	3579444	11.36

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 05/23/2014

Instrument ID: GC-Y

Data File: Y6469.D

GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.25	3.17	3.31	371066	401635	8.24
Aroclor-1016 {2}	4.08	4.00	4.14	507645	532054	4.81
Aroclor-1016 {3}	4.63	4.55	4.69	662505	707036	6.72
Aroclor-1016 {4}	5.14	5.06	5.20	330792	359324	8.63
Aroclor-1016 {5}	5.53	5.46	5.60	518662	569086	9.72
Aroclor-1260	8.32	7.41	9.21	1564265	1712553	9.48
Aroclor-1260 {2}	8.99	8.08	9.88	727539	727849	0.04
Aroclor-1260 {3}	9.46	8.56	10.36	1803444	1950862	8.17
Aroclor-1260 {4}	9.95	9.04	10.84	948262	995851	5.02
Aroclor-1260 {5}	11.01	10.10	11.90	413540	441773	6.83

Data File: Y6469.C

GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.72	3.64	3.78	859560	930988	8.31
Aroclor-1016 {2}	4.31	4.24	4.38	1693665	1772330	4.64
Aroclor-1016 {3}	5.06	4.99	5.13	3820444	4079467	6.78
Aroclor-1016 {4}	5.27	5.19	5.33	1688800	1762345	4.35
Aroclor-1016 {5}	5.44	5.37	5.51	1287104	1370180	6.45
Aroclor-1260	7.80	6.90	8.70	1507843	1603972	6.38
Aroclor-1260 {2}	8.06	7.15	8.95	2188402	2234321	2.10
Aroclor-1260 {3}	9.64	8.74	10.54	2040931	2066358	1.25
Aroclor-1260 {4}	10.15	9.24	11.04	4350124	4384563	0.79
Aroclor-1260 {5}	10.74	9.83	11.63	3214190	3184753	0.92

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 05/23/2014

Instrument ID: GC-Y

Data File: Y6476.D

GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.25	3.17	3.31	371066	406993	9.68
Aroclor-1016 {2}	4.08	4.00	4.14	507645	538944	6.17
Aroclor-1016 {3}	4.63	4.55	4.69	662505	713895	7.76
Aroclor-1016 {4}	5.14	5.06	5.20	330792	373596	12.94
Aroclor-1016 {5}	5.53	5.46	5.60	518662	583179	12.44
Aroclor-1260	8.32	7.41	9.21	1564265	1824063	16.61
Aroclor-1260 {2}	8.99	8.08	9.88	727539	778420	6.99
Aroclor-1260 {3}	9.47	8.56	10.36	1803444	2157394	19.63
Aroclor-1260 {4}	9.95	9.04	10.84	948262	1098206	15.81
Aroclor-1260 {5}	11.01	10.10	11.90	413540	474267	14.68

Data File: Y6476.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.72	3.64	3.78	859560	940465	9.41
Aroclor-1016 {2}	4.31	4.24	4.38	1693665	1789912	5.68
Aroclor-1016 {3}	5.06	4.99	5.13	3820444	4158808	8.86
Aroclor-1016 {4}	5.27	5.19	5.33	1688800	1806002	6.94
Aroclor-1016 {5}	5.44	5.37	5.51	1287104	1405396	9.19
Aroclor-1260	7.80	6.90	8.70	1507843	1563855	3.71
Aroclor-1260 {2}	8.06	7.15	8.95	2188402	2350710	7.42
Aroclor-1260 {3}	9.64	8.74	10.54	2040931	2222590	8.90
Aroclor-1260 {4}	10.15	9.24	11.04	4350124	4841322	11.29
Aroclor-1260 {5}	10.74	9.83	11.63	3214190	3626197	12.82

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 05/23/2014 Instrument ID: GC-Y

Data File: Y6477.D GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.25	3.17	3.31	371066	386366	4.12
Aroclor-1016 {2}	4.08	4.00	4.14	507645	521525	2.73
Aroclor-1016 {3}	4.63	4.55	4.69	662505	685818	3.52
Aroclor-1016 {4}	5.14	5.06	5.20	330792	356407	7.74
Aroclor-1016 {5}	5.53	5.46	5.60	518662	556480	7.29
Aroclor-1260	8.32	7.41	9.21	1564265	1709435	9.28
Aroclor-1260 {2}	8.99	8.08	9.88	727539	762274	4.77
Aroclor-1260 {3}	9.47	8.56	10.36	1803444	1996547	10.71
Aroclor-1260 {4}	9.95	9.04	10.84	948262	1012007	6.72
Aroclor-1260 {5}	11.01	10.10	11.90	413540	419607	1.47

Data File: Y6477.C GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.73	3.64	3.78	859560	888926	3.42
Aroclor-1016 {2}	4.33	4.24	4.38	1693665	1708932	0.90
Aroclor-1016 {3}	5.07	4.99	5.13	3820444	3979038	4.15
Aroclor-1016 {4}	5.28	5.19	5.33	1688800	1704086	0.91
Aroclor-1016 {5}	5.45	5.37	5.51	1287104	1344852	4.49
Aroclor-1260	7.81	6.90	8.70	1507843	1619590	7.41
Aroclor-1260 {2}	8.06	7.15	8.95	2188402	2243840	2.53
Aroclor-1260 {3}	9.65	8.74	10.54	2040931	2092872	2.54
Aroclor-1260 {4}	10.16	9.24	11.04	4350124	4452310	2.35
Aroclor-1260 {5}	10.75	9.83	11.63	3214190	3303859	2.79

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 05/23/2014

Instrument ID: GC-Y

Data File: Y6481.D

GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.25	3.17	3.31	371066	384016	3.49
Aroclor-1016 {2}	4.08	4.00	4.14	507645	518200	2.08
Aroclor-1016 {3}	4.63	4.55	4.69	662505	680306	2.69
Aroclor-1016 {4}	5.14	5.06	5.20	330792	346518	4.75
Aroclor-1016 {5}	5.53	5.46	5.60	518662	548176	5.69
Aroclor-1260	8.32	7.41	9.21	1564265	1705993	9.06
Aroclor-1260 {2}	8.99	8.08	9.88	727539	768531	5.63
Aroclor-1260 {3}	9.46	8.56	10.36	1803444	2015444	11.76
Aroclor-1260 {4}	9.95	9.04	10.84	948262	1022745	7.85
Aroclor-1260 {5}	11.00	10.10	11.90	413540	436458	5.54

Data File: Y6481.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.72	3.64	3.78	859560	888430	3.36
Aroclor-1016 {2}	4.31	4.24	4.38	1693665	1710122	0.97
Aroclor-1016 {3}	5.06	4.99	5.13	3820444	3921540	2.65
Aroclor-1016 {4}	5.27	5.19	5.33	1688800	1688645	0.01
Aroclor-1016 {5}	5.44	5.37	5.51	1287104	1328686	3.23
Aroclor-1260	7.80	6.90	8.70	1507843	1434558	4.86
Aroclor-1260 {2}	8.06	7.15	8.95	2188402	2202462	0.64
Aroclor-1260 {3}	9.64	8.74	10.54	2040931	2009943	1.52
Aroclor-1260 {4}	10.15	9.24	11.04	4350124	4364118	0.32
Aroclor-1260 {5}	10.74	9.83	11.63	3214190	3343476	4.02

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 05/23/2014

Instrument ID: GC-Y

Data File: Y6492.D

GC Column (1st): DB-5

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.25	3.17	3.31	371066	388064	4.58
Aroclor-1016 {2}	4.08	4.00	4.14	507645	525730	3.56
Aroclor-1016 {3}	4.63	4.55	4.69	662505	689048	4.01
Aroclor-1016 {4}	5.14	5.06	5.20	330792	351183	6.16
Aroclor-1016 {5}	5.53	5.46	5.60	518662	557943	7.57
Aroclor-1260	8.32	7.41	9.21	1564265	1738537	11.14
Aroclor-1260 {2}	8.99	8.08	9.88	727539	786269	8.07
Aroclor-1260 {3}	9.46	8.56	10.36	1803444	2043024	13.28
Aroclor-1260 {4}	9.95	9.04	10.84	948262	1042072	9.89
Aroclor-1260 {5}	11.01	10.10	11.90	413540	459073	11.01

Data File: Y6492.C

GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.72	3.64	3.78	859560	899439	4.64
Aroclor-1016 {2}	4.31	4.24	4.38	1693665	1732089	2.27
Aroclor-1016 {3}	5.06	4.99	5.13	3820444	3983036	4.26
Aroclor-1016 {4}	5.27	5.19	5.33	1688800	1716528	1.64
Aroclor-1016 {5}	5.44	5.37	5.51	1287104	1354892	5.27
Aroclor-1260	7.80	6.90	8.70	1507843	1508400	0.04
Aroclor-1260 {2}	8.05	7.15	8.95	2188402	2271037	3.78
Aroclor-1260 {3}	9.64	8.74	10.54	2040931	2173054	6.47
Aroclor-1260 {4}	10.15	9.24	11.04	4350124	4638720	6.63
Aroclor-1260 {5}	10.74	9.83	11.63	3214190	3415746	6.27

PCB RETENTION TIME SHIFT SUMMARY

Instrument ID: GC-Y

Column: DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1	<u>2.79</u>	DCB 1	<u>12.10</u>	TCMX 2	<u>2.86</u>	DCB 2	<u>12.43</u>
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Client ID	Sample ID	Lab	Date Analyzed	Time Analyzed	TCMX 1 RT #	DCB 1 RT #	TCMX 2 RT #	DCB 2 RT #
PCB	BLKS140522-06		05/22/2014	14:49	2.79	12.10	2.86	12.43
PCB	LCSS140522-06		05/22/2014	15:06	2.78	12.10	2.85	12.42
A-1_(0-2)	E14-04618-001		05/22/2014	15:31	2.79	12.10	2.86	12.43
PCB	04618-001MS		05/22/2014	15:49	2.78	12.10	2.85	12.43
PCB	04618-001MSD		05/22/2014	16:06	2.78	12.10	2.85	12.42
A-1_(2.0)	E14-04618-002		05/22/2014	16:28	2.79	12.10	2.85	12.43
A-2_(0-2)	E14-04618-003		05/22/2014	16:46	2.79	12.10	2.85	12.42
A-2_(2.0)	E14-04618-004		05/22/2014	17:56	2.79	12.10	2.85	12.42
A-3_(0-2)	E14-04618-005		05/22/2014	18:13	2.79	12.10	2.85	12.42
1-1_(0-2)	E14-04618-006		05/22/2014	18:30	2.79	12.10	2.85	12.42
Y-49_(2.)	E14-04618-007		05/22/2014	18:48	2.79	12.10	2.85	12.42
Z-50_(2.)	E14-04618-008		05/22/2014	19:05	2.79	12.10	2.85	12.42
Y-51_(2.)	E14-04618-009		05/22/2014	19:23	2.79	12.10	2.85	12.42
D-1_(0-2)	E14-04618-010		05/22/2014	19:41	2.79	12.10	2.85	12.42
C-2_(0-2)	E14-04618-011		05/22/2014	19:58	2.79	12.10	2.85	12.42
A-2_(0-2)	E14-04618-003DL		05/23/2014	04:06	2.79	12.10	2.85	12.42
A-3_(0-2)	E14-04618-005DL		05/23/2014	09:20	2.79	12.10	2.85	12.43
D-1_(0-2)	E14-04618-010DL		05/23/2014	09:37	2.79	12.10	2.85	12.42
C-2_(0-2)	E14-04618-011DL		05/23/2014	09:55	2.79	12.10	2.85	12.41

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

(\pm 0.10 Minutes)

DCB = Decachlorobiphenyl

(\pm 0.10 Minutes)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

PCB RETENTION TIME SHIFT SUMMARY

Instrument ID: GC-Y

Column: DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1	<u>2.79</u>	DCB 1	<u>12.10</u>	TCMX 2	<u>2.85</u>	DCB 2	<u>12.43</u>
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Client ID	Sample ID	Lab	Date Analyzed	Time Analyzed	TCMX 1 RT #	DCB 1 RT #	TCMX 2 RT #	DCB 2 RT #
PCB	BLKA140522-09		05/23/2014	10:54	2.79	12.10	2.85	12.43
PCB	LCSA140522-09		05/23/2014	11:12	2.79	12.10	2.85	12.42
FB-05161	E14-04476-003		05/23/2014	11:29	2.78	12.10	2.85	12.42
FB-1	E14-04618-012		05/23/2014	11:47	2.78	12.10	2.85	12.42

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

(\pm 0.10 Minutes)

DCB = Decachlorobiphenyl

(\pm 0.10 Minutes)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

PCB SAMPLE DATA

E14-04618 0052

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
 Data File : Y6447.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 22 May 2014 15:31
 Operator : NG
 Sample : A-1_(0-2,E14-04618-001.S,5.59g,41.7,20
 Misc : 140522-06,05/22/14,05/21/14,1
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: May 22 15:52:46 2014
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
 Quant Title :
 QLast Update : Mon May 19 16:51:54 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>							
	System Monitoring Compounds						
1) S	TCMX	2.79	2.86	4477.0E6	10613.7E6	233.013	229.246
	Spiked Amount	200.000		Recovery	=	116.51%	114.62%
2) S	DCB	12.10	12.43	1304.1E6	2745.2E6	222.464	211.215
	Spiked Amount	200.000		Recovery	=	111.23%	105.61%
<hr/>							
Target Compounds							
	Sum Aroclor-1016			0	0	N.D.	N.D.
	Average Aroclor-1016					0.000	0.000
	Sum Aroclor-1221			0	0	N.D.	N.D.
	Average Aroclor-1221					0.000	0.000
	Sum Aroclor-1232			0	0	N.D.	N.D.
	Average Aroclor-1232					0.000	0.000
	Sum Aroclor-1242			0	0	N.D.	N.D.
	Average Aroclor-1242					0.000	0.000
23) L6	Aroclor-1248	4.48	5.07	179.2E6	384.7E6	220.372	200.791
24) L6	Aroclor-1248 {2}	5.02	5.65	81821474	643.6E6	183.702	229.066
25) L6	Aroclor-1248 {3}	5.34	6.05	148.0E6	491.0E6	259.985	236.514
26) L6	Aroclor-1248 {4}	6.03	6.20	179.7E6	351.2E6	175.422	181.950
27) L6	Aroclor-1248 {5}	6.30	0.00	315.7E6	0	409.851	N.D. d#
	Sum Aroclor-1248			904.5E6	1870.6E6	1249.332	848.321
	Average Aroclor-1248					249.866	212.080
	Sum Aroclor-1254			0	0	N.D.	N.D.
	Average Aroclor-1254					0.000	0.000
	Sum Aroclor-1260			0	0	N.D.	N.D.
	Average Aroclor-1260					0.000	0.000
	Sum Aroclor-1262			0	0	N.D.	N.D.
	Average Aroclor-1262					0.000	0.000
	Sum Aroclor-1268			0	0	N.D.	N.D.
	Average Aroclor-1268					0.000	0.000
<hr/>							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

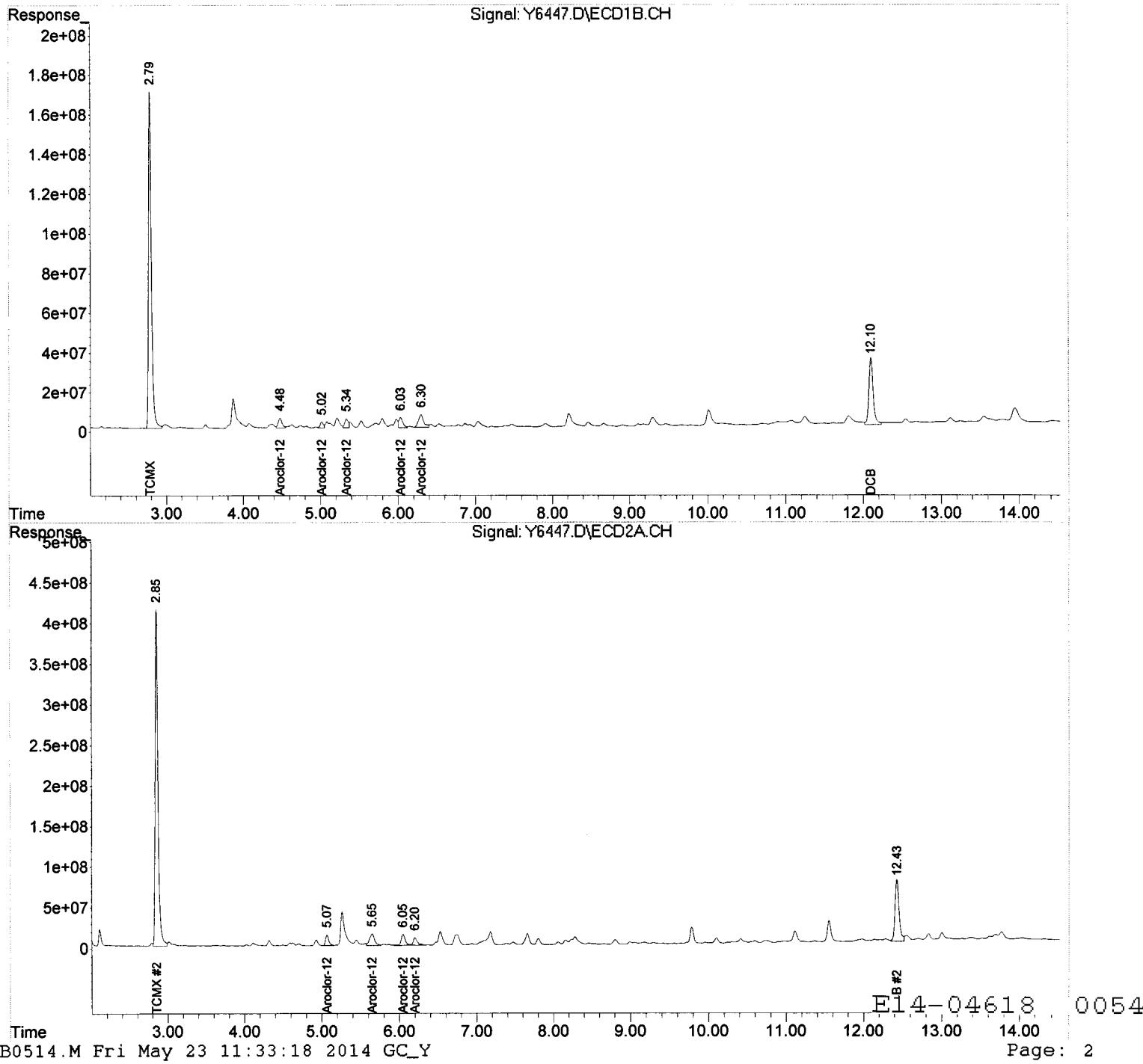
E14-04618 0053

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
Data File : Y6447.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 22 May 2014 15:31
Operator : NG
Sample : A-1_(0-2,E14-04618-001,S,5.59g,41.7,20
Misc : 140522-06,05/22/14,05/21/14,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 22 15:52:46 2014
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
Quant Title :
QLast Update : Mon May 19 16:51:54 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
 Data File : Y6450.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 22 May 2014 16:28
 Operator : NG
 Sample : A-1_(2.0,E14-04618-002,S,5.64g,68.3,20
 Misc : 140522-06.05/22/14,05/21/14,1
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: May 23 10:58:31 2014
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
 Quant Title :
 QLast Update : Mon May 19 16:51:54 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
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System Monitoring Compounds

1) S TCMX	2.79	2.85	5086.6E6	12128.8E6	264.742	261.972
Spiked Amount	200.000			Recovery	= 132.37%	130.99%
2) S DCB	12.10	12.43	1366.9E6	2976.1E6	233.189	228.981
Spiked Amount	200.000			Recovery	= 116.59%	114.49%

Target Compounds

Sum Aroclor-1016		0	0	N.D.	N.D.
Average Aroclor-1016				0.000	0.000
Sum Aroclor-1221		0	0	N.D.	N.D.
Average Aroclor-1221				0.000	0.000
Sum Aroclor-1232		0	0	N.D.	N.D.
Average Aroclor-1232				0.000	0.000
Sum Aroclor-1242		0	0	N.D.	N.D.
Average Aroclor-1242				0.000	0.000

23) L6 Aroclor-1248	4.48	5.07	52583490	107.3E6	64.654m	55.998
24) L6 Aroclor-1248 {2}	5.02	5.65	36821665	236.9E6	82.670	84.317m
25) L6 Aroclor-1248 {3}	0.00	6.04	0	150.4E6	N.D. d	72.452m#
26) L6 Aroclor-1248 {4}	6.04	6.20	58078815	82199230	56.689	42.580m
27) L6 Aroclor-1248 {5}	0.00	6.55	0	43648163	N.D. d	40.258m#
Sum Aroclor-1248			147.5E6	620.5E6	204.013	295.605
Average Aroclor-1248					68.004	59.121

Sum Aroclor-1254		0	0	N.D.	N.D.
Average Aroclor-1254				0.000	0.000
Sum Aroclor-1260		0	0	N.D.	N.D.
Average Aroclor-1260				0.000	0.000

Sum Aroclor-1262		0	0	N.D.	N.D.
Average Aroclor-1262				0.000	0.000
Sum Aroclor-1268		0	0	N.D.	N.D.
Average Aroclor-1268				0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

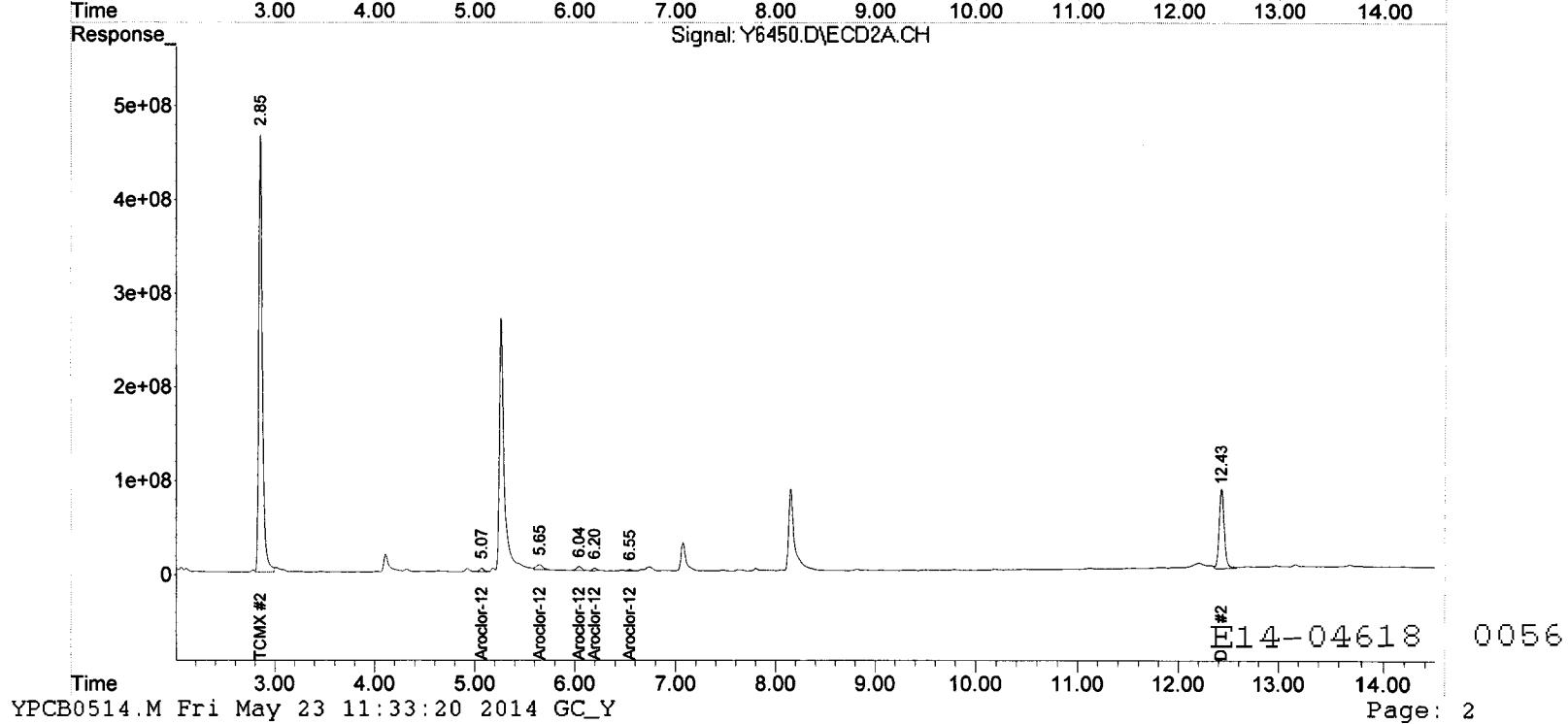
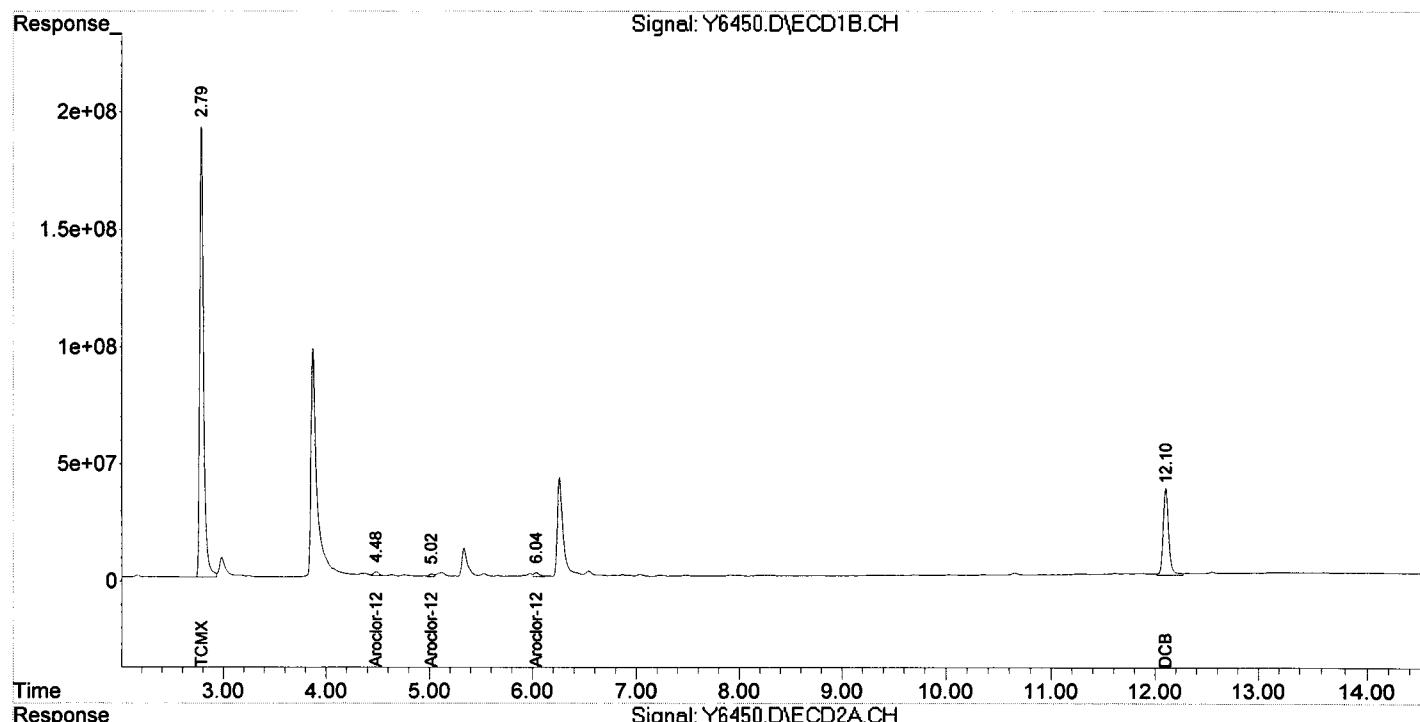
E14-04618 0055

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
Data File : Y6450.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 22 May 2014 16:28
Operator : NG
Sample : A-1_(2.0,E14-04618-002,S,5.64g,68.3,20
Misc : 140522-06,05/22/14,05/21/14,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 23 10:58:31 2014
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
Quant Title :
QLast Update : Mon May 19 16:51:54 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
 Data File : Y6451.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 22 May 2014 16:46
 Operator : NG
 Sample : A-2_(0-2,E14-04618-003,S,5.28g,40.5,20
 Misc : 140522-06,05/22/14,05/21/14,1
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: May 23 11:07:13 2014
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
 Quant Title :
 QLast Update : Mon May 19 16:51:54 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.79	2.85	4413.7E6	9831.0E6	229.723	212.342
Spiked Amount	200.000		Recovery	=	114.86%	106.17%
2) S DCB	12.10	12.42	1421.8E6	3151.9E6	242.551	242.507m
Spiked Amount	200.000		Recovery	=	121.28%	121.25%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.48	5.07	35697.8E6	74073.8E6	43892.182	38657.572
24) L6 Aroclor-1248 {2}	5.02	5.65	13394.6E6	96163.2E6	30072.952	34223.791
25) L6 Aroclor-1248 {3}	5.34	6.05	9276.6E6	45956.8E6	16296.244	22137.039 #
26) L6 Aroclor-1248 {4}	6.04	6.19	6763.9E6	39589.8E6	6602.067	20508.088 #
27) L6 Aroclor-1248 {5}	6.31	6.54	7467.5E6	6004.3E6	9693.565	5537.904 #
Sum Aroclor-1248			72600.4E6	261788.0E6	106557.009	121064.393
Average Aroclor-1248					21311.402	24212.879
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

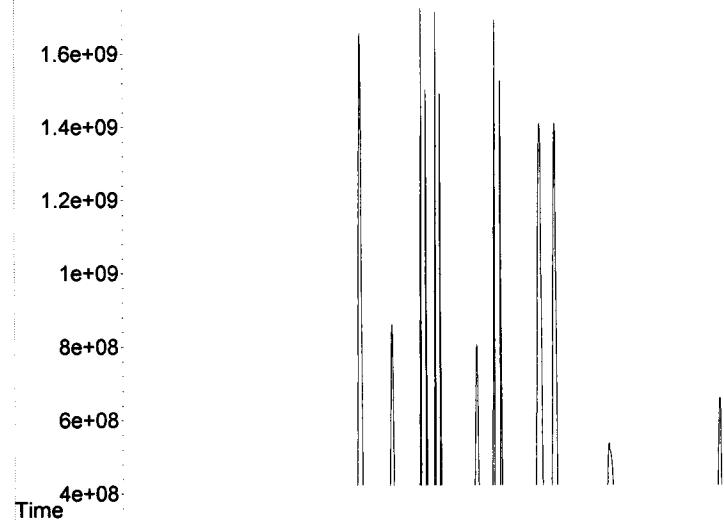
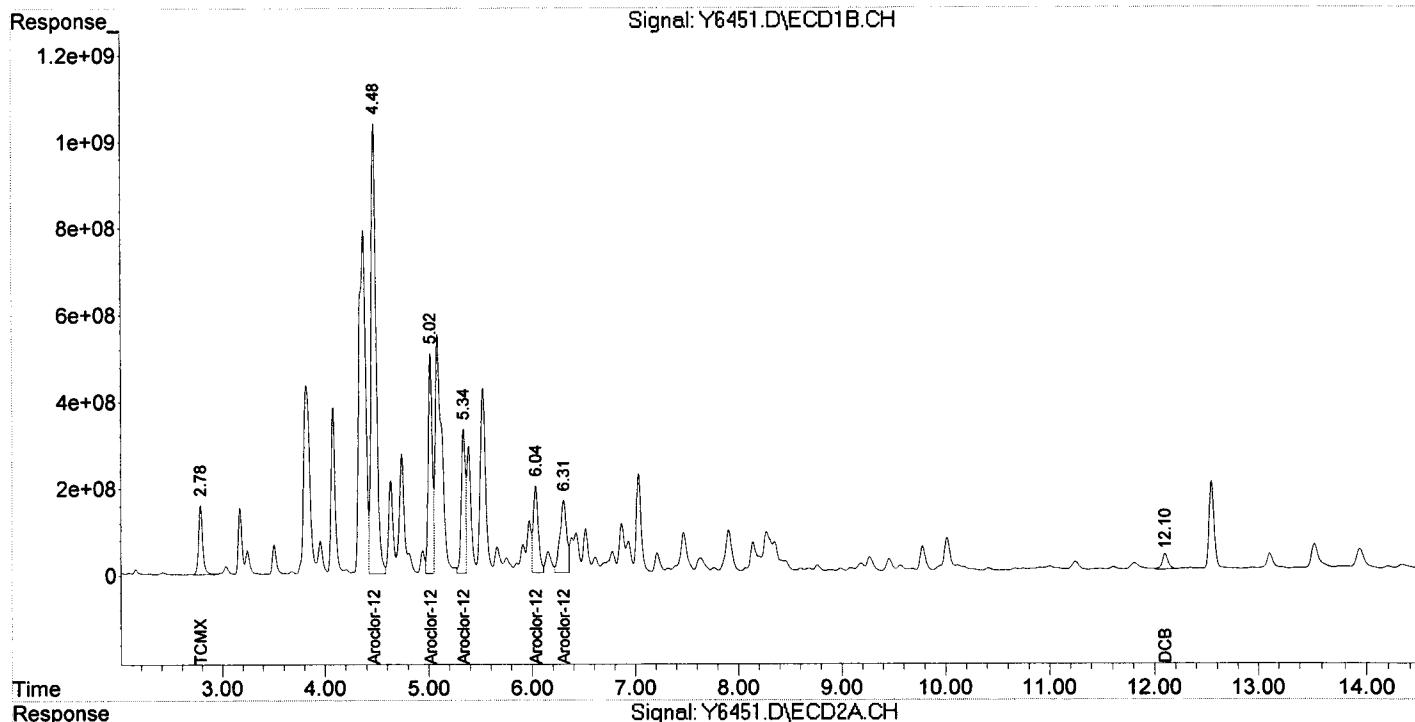
E14-04618 0057

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
Data File : Y6451.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 22 May 2014 16:46
Operator : NG
Sample : A-2_(0-2,E14-04618-003,S,5.28g,40.5,20
Misc : 140522-06,05/22/14,05/21/14,1
ALS Vial : 13 Sample Multiplier: 1

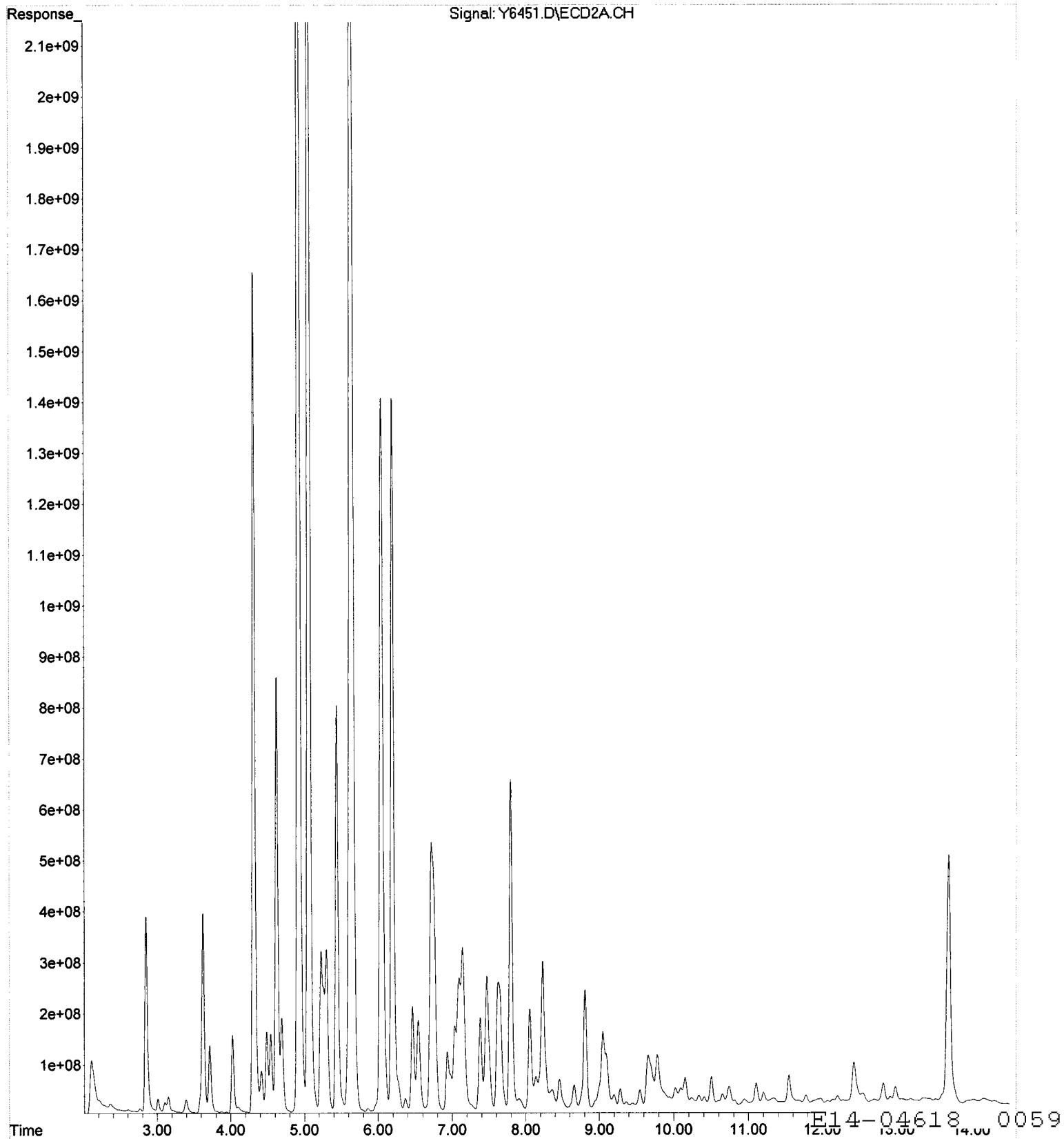
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 23 11:07:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
Quant Title :
QLast Update : Mon May 19 16:51:54 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



E14-04618 0058

File : C:\MSDChem\1\DATA\05-22-14\Y6451.D
Operator : NG
Acquired : 22 May 2014 16:46 using AcqMethod YPCB0514.M
Instrument : GC-Y
Sample Name: A-2_(0-2,E14-04618-003,S,5.28g,40.5,20
Misc Info : 140522-06,05/22/14,05/21/14,1
Vial Number: 13



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
 Data File : Y6475.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 23 May 2014 4:06
 Operator : NG
 Sample : A-2_(0-2,E14-04618-003DL,S,5.28g,40.5,20
 Misc : 140522-06,05/22/14,05/21/14,50
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: May 23 11:25:24 2014
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
 Quant Title :
 QLast Update : Mon May 19 16:51:54 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>							
1) S	TCMX	2.79	2.85	112.1E6	265.3E6	5.833m	5.730
Spiked Amount	200.000			Recovery	=	2.92%	2.87%
<hr/>							
2) S	DCB	12.10	12.42	32055703	73909709	5.468m	5.687m
Spiked Amount	200.000			Recovery	=	2.73%	2.84%
<hr/>							
Target Compounds							
Sum Aroclor-1016				0	0	N.D.	N.D.
Average Aroclor-1016						0.000	0.000
Sum Aroclor-1221				0	0	N.D.	N.D.
Average Aroclor-1221						0.000	0.000
Sum Aroclor-1232				0	0	N.D.	N.D.
Average Aroclor-1232						0.000	0.000
Sum Aroclor-1242				0	0	N.D.	N.D.
Average Aroclor-1242						0.000	0.000
23) L6	Aroclor-1248	4.48	5.06	986.9E6	2157.2E6	1213.417	1125.808
24) L6	Aroclor-1248 {2}	5.02	5.64	390.1E6	2533.2E6	875.744	901.564
25) L6	Aroclor-1248 {3}	5.34	6.05	263.1E6	1230.7E6	462.229	592.818 #
26) L6	Aroclor-1248 {4}	6.04	6.19	207.3E6	1065.4E6	202.312	551.908 #
27) L6	Aroclor-1248 {5}	6.31	6.54	171.0E6	196.0E6	222.012	180.733
Sum Aroclor-1248				2018.4E6	7182.5E6	2975.715	3352.830
Average Aroclor-1248						595.143	670.566
Sum Aroclor-1254				0	0	N.D.	N.D.
Average Aroclor-1254						0.000	0.000
Sum Aroclor-1260				0	0	N.D.	N.D.
Average Aroclor-1260						0.000	0.000
Sum Aroclor-1262				0	0	N.D.	N.D.
Average Aroclor-1262						0.000	0.000
Sum Aroclor-1268				0	0	N.D.	N.D.
Average Aroclor-1268						0.000	0.000
<hr/>							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

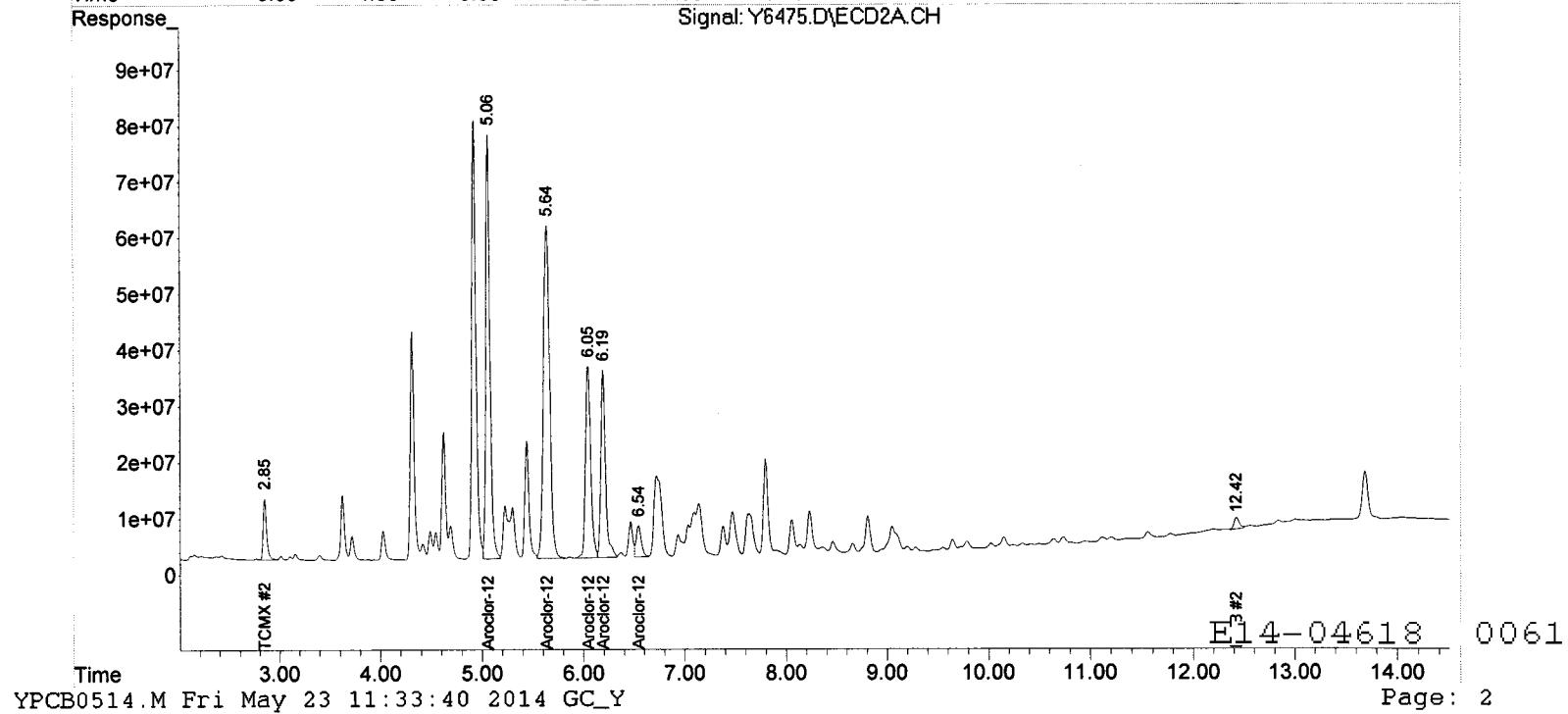
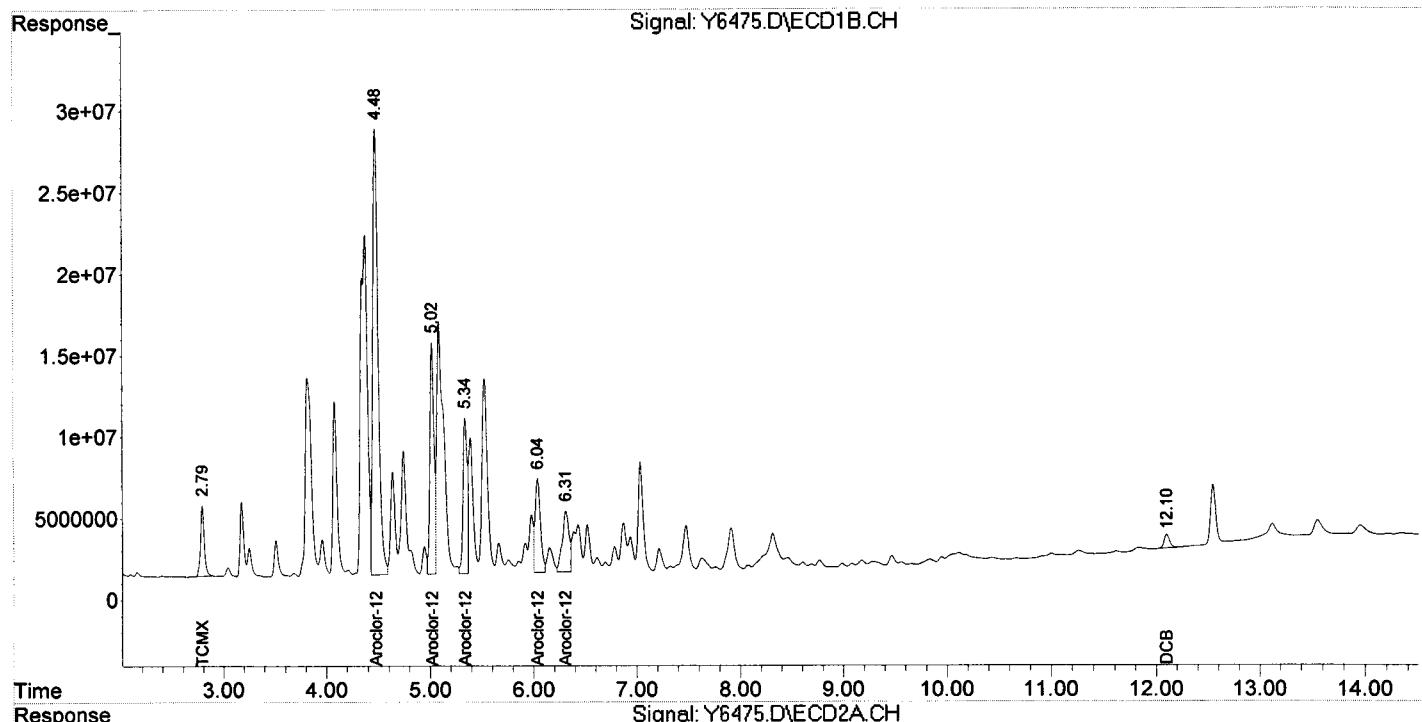
E14-04618 0060

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
Data File : Y6475.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 May 2014 4:06
Operator : NG
Sample : A-2_(0-2,E14-04618-003DL,S,5.28g,40.5,20
Misc : 140522-06,05/22/14,05/21/14,50
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 23 11:25:24 2014
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
Quant Title :
QLast Update : Mon May 19 16:51:54 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
 Data File : Y6452.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 22 May 2014 17:56
 Operator : NG
 Sample : A-2_(2.0,E14-04618-004,S,5.41g,24.6,20
 Misc : 140522-06,05/22/14,05/21/14,1
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: May 23 10:29:57 2014
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
 Quant Title :
 QLast Update : Mon May 19 16:51:54 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.79	2.85	4279.3E6	10040.8E6	222.723	216.873
Spiked Amount	200.000		Recovery	=	111.36%	108.44%
2) S DCB	12.10	12.42	1167.9E6	2541.0E6	199.228	195.510m
Spiked Amount	200.000		Recovery	=	99.61%	97.75%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.48	5.06	14480834	32147022	17.805	16.777
24) L6 Aroclor-1248 {2}	5.02	5.64	6646581	46021015	14.923	16.379m
25) L6 Aroclor-1248 {3}	0.00	6.04	0	29655126	N.D. d	14.285m#
26) L6 Aroclor-1248 {4}	6.04	6.19	5464635	20361448	5.334	10.548m#
27) L6 Aroclor-1248 {5}	0.00	6.55	0	6126953	N.D. d	5.651 #
Sum Aroclor-1248			26592051	134.3E6	38.061	63.639
Average Aroclor-1248					12.687	12.728
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

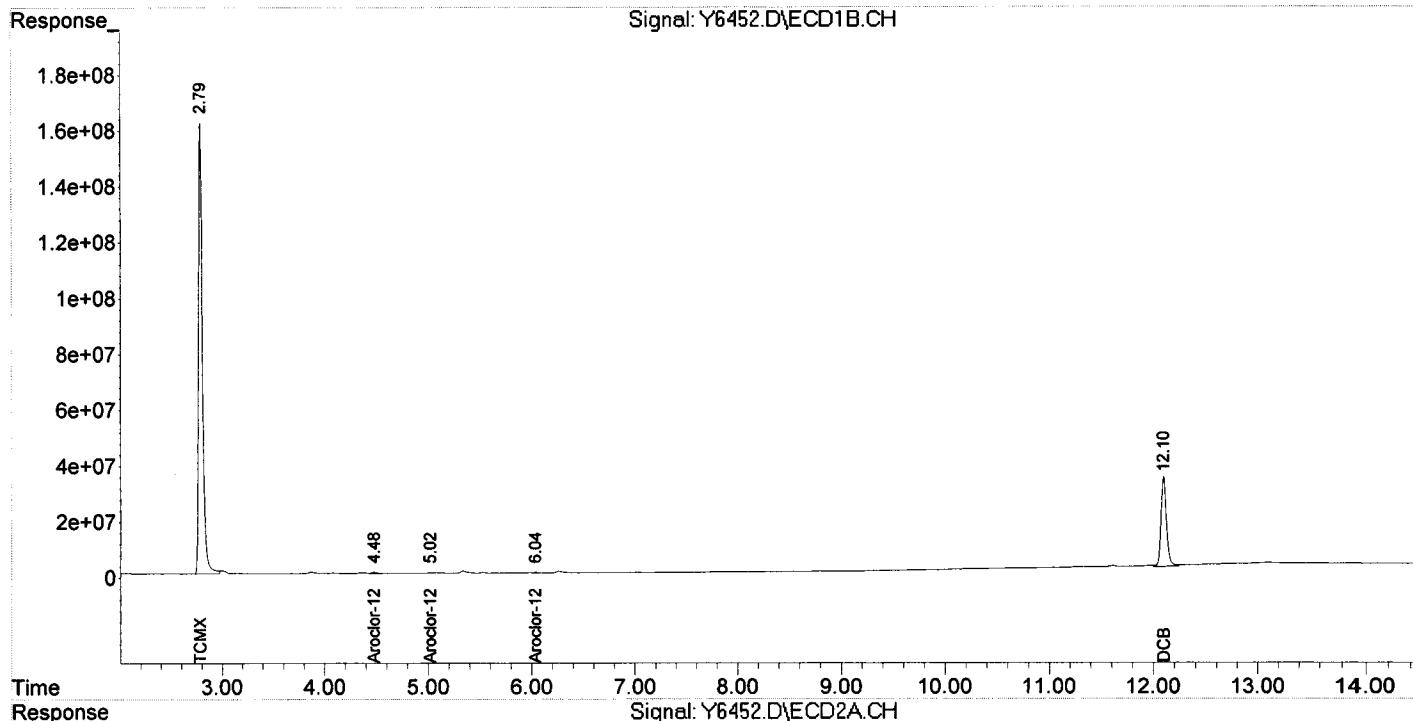
E14-04618 0062

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
Data File : Y6452.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 22 May 2014 17:56
Operator : NG
Sample : A-2_(2.0,E14-04618-004,S,5.41g,24.6,20
Misc : 140522-06,05/22/14,05/21/14,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 23 10:29:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
Quant Title :
QLast Update : Mon May 19 16:51:54 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
 Data File : Y6453.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 22 May 2014 18:13
 Operator : NG
 Sample : A-3_(0-2,E14-04618-005,S,5.77g,24.6,20
 Misc : 140522-06,05/22/14,05/21/14,1
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: May 23 11:07:37 2014
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
 Quant Title :
 QLast Update : Mon May 19 16:51:54 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.79	2.85	3883.1E6	9637.1E6	202.105	208.154
Spiked Amount	200.000		Recovery	=	101.05%	104.08%
2) S DCB	12.10	12.42	1201.7E6	2839.7E6	205.002	218.490
Spiked Amount	200.000		Recovery	=	102.50%	109.25%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.48	5.06	3128.4E6	6558.6E6	3846.496	3422.787
24) L6 Aroclor-1248 {2}	5.02	5.65	1812.0E6	14425.4E6	4068.259	5133.913 #
25) L6 Aroclor-1248 {3}	5.34	6.04	2614.5E6	9923.2E6	4592.925	4779.945
26) L6 Aroclor-1248 {4}	6.04	6.19	7095.4E6	6471.3E6	6925.638	3352.216 #
27) L6 Aroclor-1248 {5}	6.30	6.54	4300.5E6	4430.3E6	5582.523	4086.156 #
Sum Aroclor-1248			18950.8E6	41808.8E6	25015.841	20775.017
Average Aroclor-1248					5003.168	4155.003
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

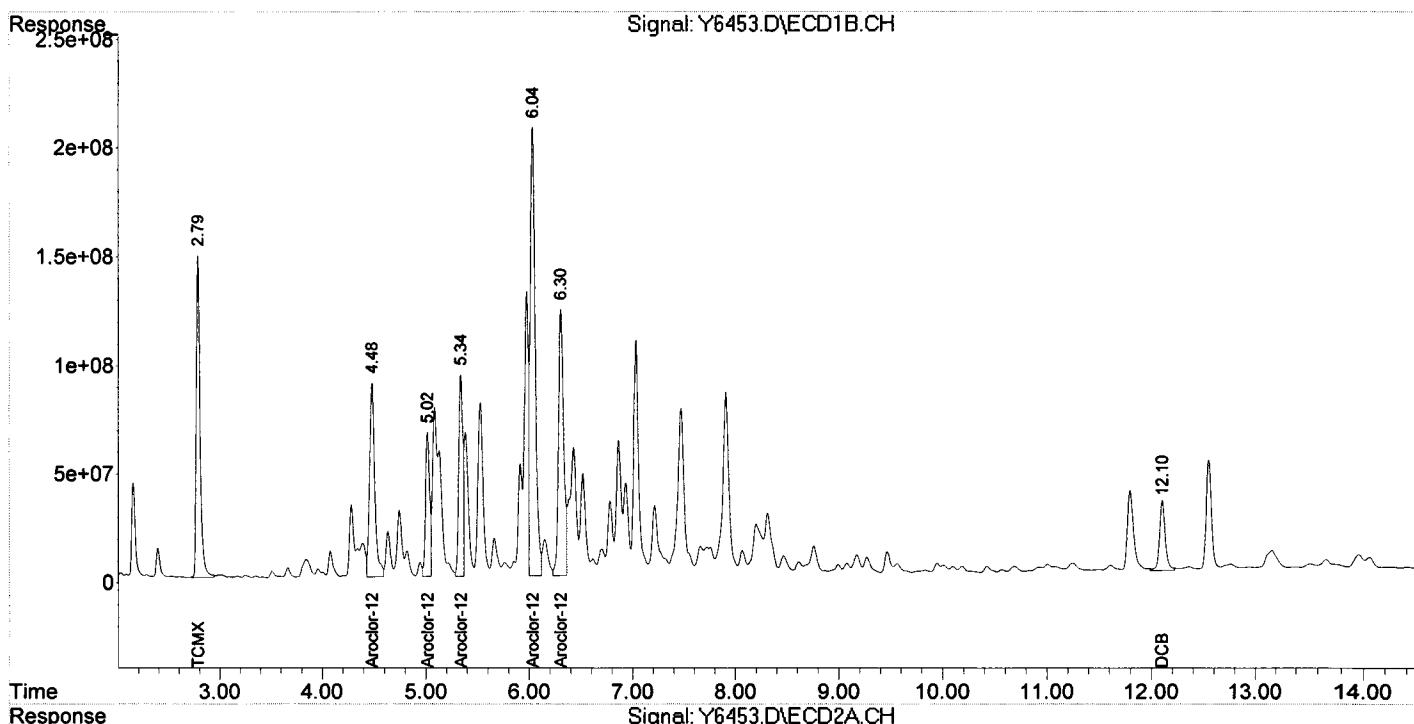
E14-04618 0064

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
Data File : Y6453.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 22 May 2014 18:13
Operator : NG
Sample : A-3_(0-2,E14-04618-005,S,5.77g,24.6,20
Misc : 140522-06,05/22/14,05/21/14,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 23 11:07:37 2014
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
Quant Title :
QLast Update : Mon May 19 16:51:54 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



E14-04618 0065

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-23-14\
 Data File : Y6478.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 23 May 2014 9:20
 Operator : NG
 Sample : A-3_(0-2,E14-04618-005DL,S,5.77g,24.6,20
 Misc : 140522-06,05/22/14,05/21/14,5
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: May 23 11:06:10 2014
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
 Quant Title :
 QLast Update : Mon May 19 16:51:54 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.79	2.85	923.1E6	2212.8E6	48.045	47.795
Spiked Amount	200.000		Recovery	=	24.02%	23.90%
2) S DCB	12.10	12.43	268.0E6	571.7E6	45.719	43.986m
Spiked Amount	200.000		Recovery	=	22.86%	21.99%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.48	5.07	756.0E6	1577.0E6	929.547	823.025
24) L6 Aroclor-1248 {2}	5.02	5.65	447.5E6	3519.8E6	1004.818	1252.675
25) L6 Aroclor-1248 {3}	5.34	6.05	608.0E6	2387.7E6	1068.048	1150.156
26) L6 Aroclor-1248 {4}	6.04	6.20	1773.4E6	1584.8E6	1730.958	820.924 #
27) L6 Aroclor-1248 {5}	6.31	6.55	1047.4E6	1101.5E6	1359.595	1015.926 #
Sum Aroclor-1248			4632.3E6	10170.8E6	6092.966	5062.707
Average Aroclor-1248					1218.593	1012.541
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

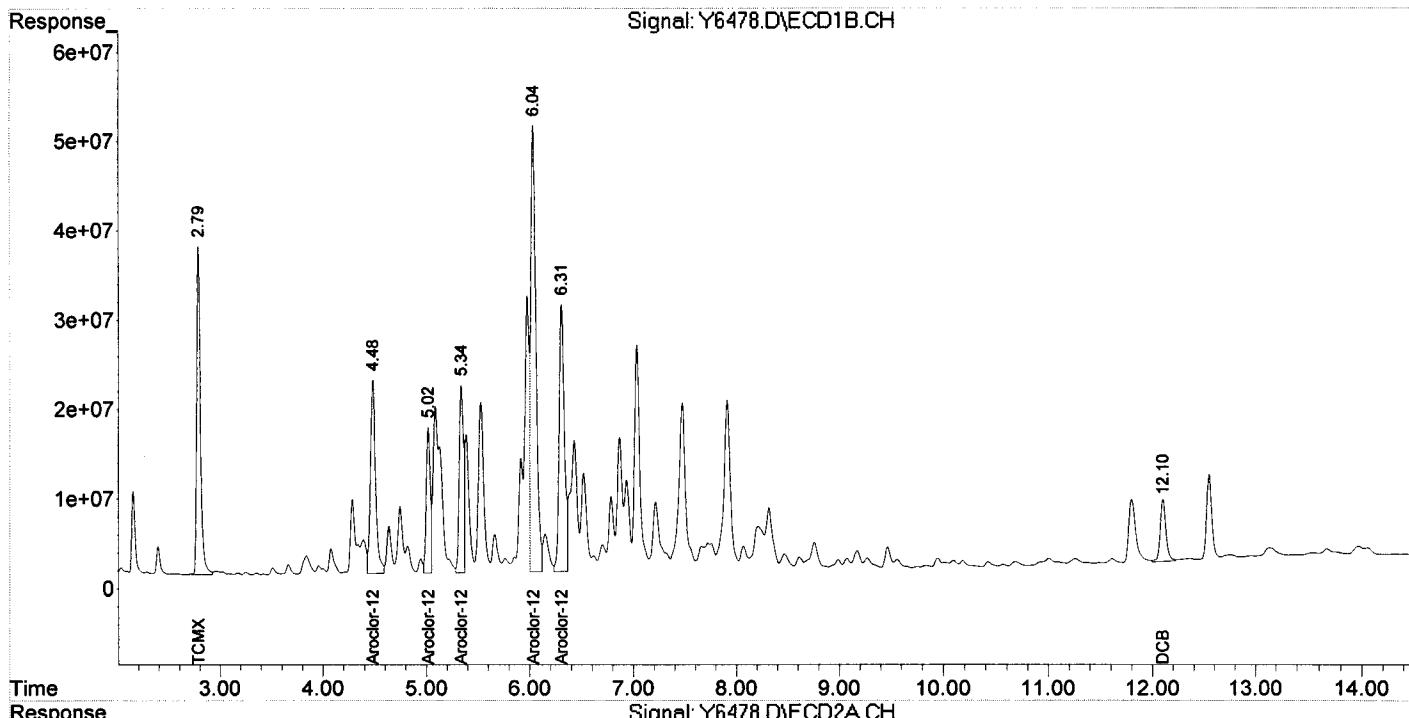
E14-04618 0066

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-23-14\
Data File : Y6478.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 May 2014 9:20
Operator : NG
Sample : A-3_(0-2,E14-04618-005DL,S,5.77g,24.6,20
Misc : 140522-06,05/22/14,05/21/14,5
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 23 11:06:10 2014
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
Quant Title :
QLast Update : Mon May 19 16:51:54 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
 Data File : Y6454.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 22 May 2014 18:30
 Operator : NG
 Sample : 1-1_(0-2,E14-04618-006,S,5.86g,46.7,20
 Misc : 140522-06,05/22/14,05/21/14,1
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: May 23 10:32:45 2014
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
 Quant Title :
 QLast Update : Mon May 19 16:51:54 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.79	2.85	4754.5E6	11152.3E6	247.457	240.880
Spiked Amount	200.000		Recovery	=	123.73%	120.44%
2) S DCB	12.10	12.42	1296.3E6	2933.7E6	221.144m	225.723m
Spiked Amount	200.000		Recovery	=	110.57%	112.86%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.49	5.06	87041799	138.1E6	107.022	72.088 #
24) L6 Aroclor-1248 {2}	5.02	5.65	36925407	382.7E6	82.903	136.199 #
25) L6 Aroclor-1248 {3}	0.00	6.03	0	440.8E6	N.D. d	212.345 #
26) L6 Aroclor-1248 {4}	6.04	6.19	160.4E6	243.8E6	156.531	126.300
27) L6 Aroclor-1248 {5}	0.00	6.53	0	265.4E6	N.D. d	244.747 #
Sum Aroclor-1248			284.3E6	1470.8E6	346.456	791.679
Average Aroclor-1248					115.485	158.336
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

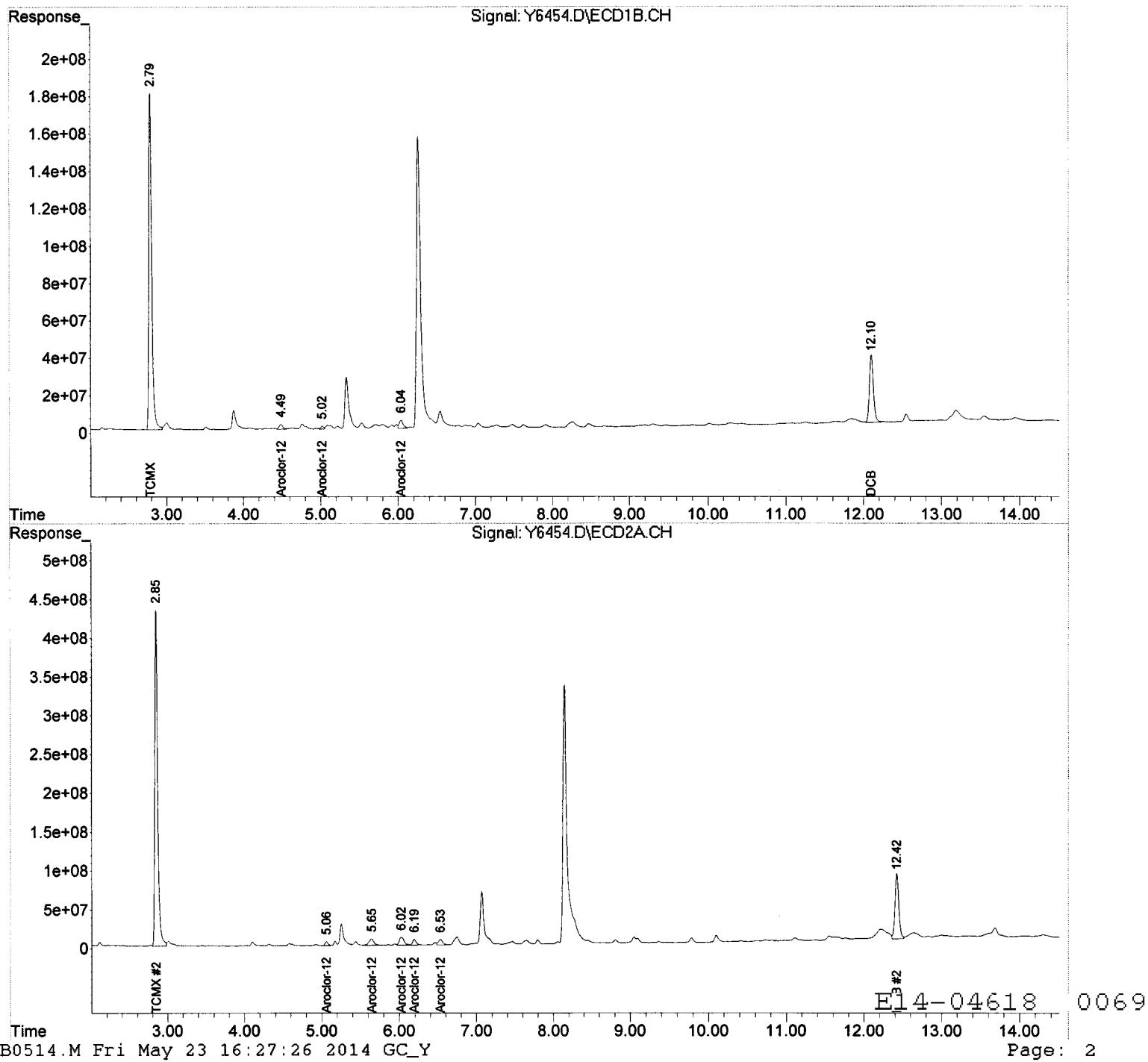
E14-04618 0068

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
Data File : Y6454.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 22 May 2014 18:30
Operator : NG
Sample : 1-1_(0-2,E14-04618-006,S,5.86g,46.7,20
Misc : 140522-06,05/22/14,05/21/14,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 23 10:32:45 2014
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
Quant Title :
QLast Update : Mon May 19 16:51:54 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
 Data File : Y6455.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 22 May 2014 18:48
 Operator : NG
 Sample : Y-49_(2.,E14-04618-007,S,5.52g,25.3,20
 Misc : 140522-06,05/22/14,05/21/14,1
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: May 23 10:30:25 2014
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
 Quant Title :
 QLast Update : Mon May 19 16:51:54 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.79	2.85	4386.1E6	10341.4E6	228.286	223.364
Spiked Amount	200.000		Recovery	=	114.14%	111.68%
2) S DCB	12.10	12.42	1185.4E6	2632.1E6	202.214	202.518
Spiked Amount	200.000		Recovery	=	101.11%	101.26%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
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(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

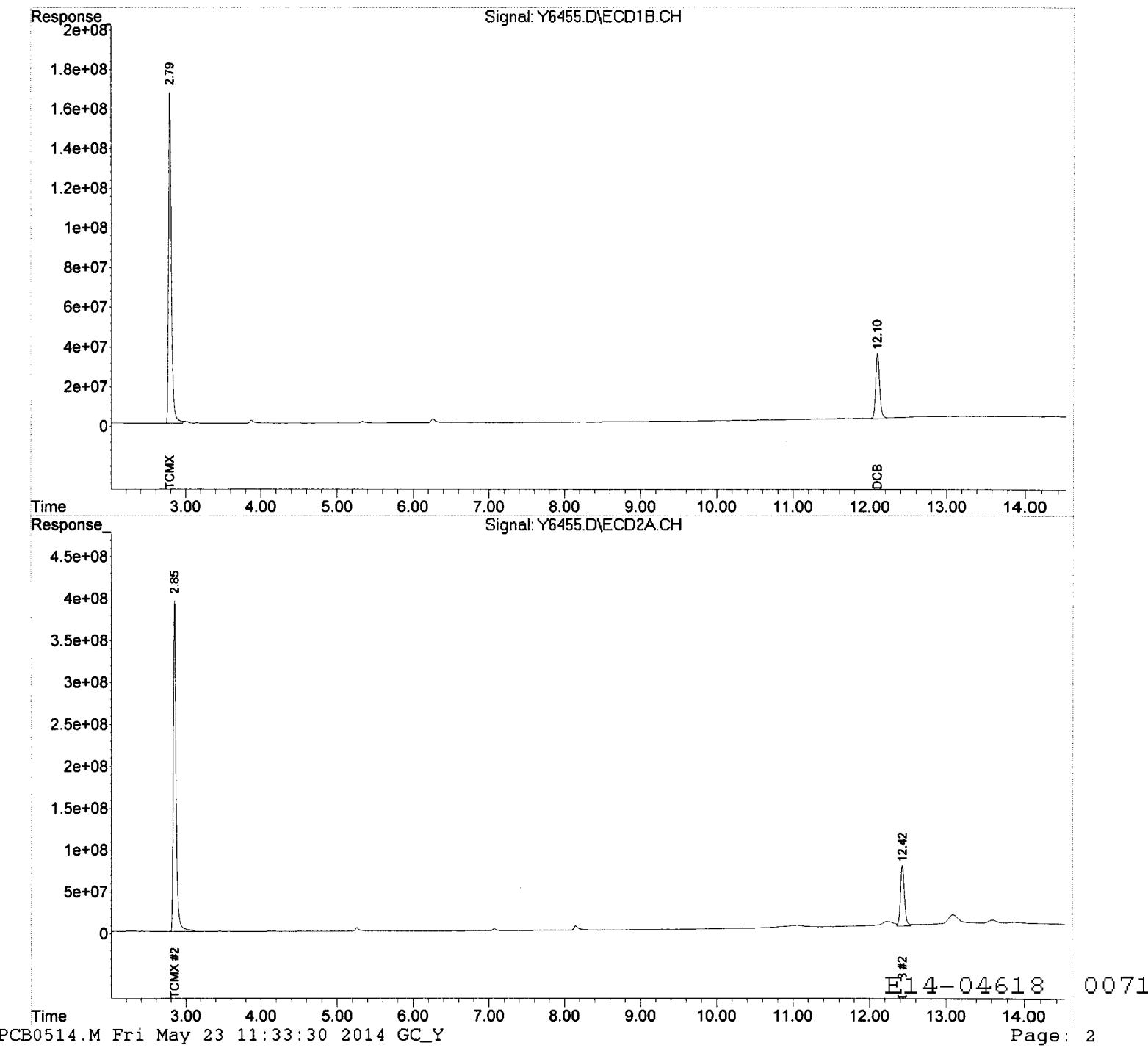
E14-04618 0070

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
Data File : Y6455.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 22 May 2014 18:48
Operator : NG
Sample : Y-49_(2.,E14-04618-007,S,5.52g,25.3,20
Misc : 140522-06,05/22/14,05/21/14,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 23 10:30:25 2014
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
Quant Title :
QLast Update : Mon May 19 16:51:54 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
 Data File : Y6456.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 22 May 2014 19:05
 Operator : NG
 Sample : Z-50_(2.,E14-04618-008,S,5.81g,82.0,20
 Misc : 140522-06,05/22/14,05/21/14,1
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: May 23 10:54:45 2014
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
 Quant Title :
 QLast Update : Mon May 19 16:51:54 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.79	2.85	5739.8E6	13812.8E6	298.741	298.344m
Spiked Amount	200.000			Recovery	= 149.37%	149.17%
2) S DCB	12.10	12.42	1612.3E6	3647.5E6	275.049m	280.645
Spiked Amount	200.000			Recovery	= 137.52%	140.32%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

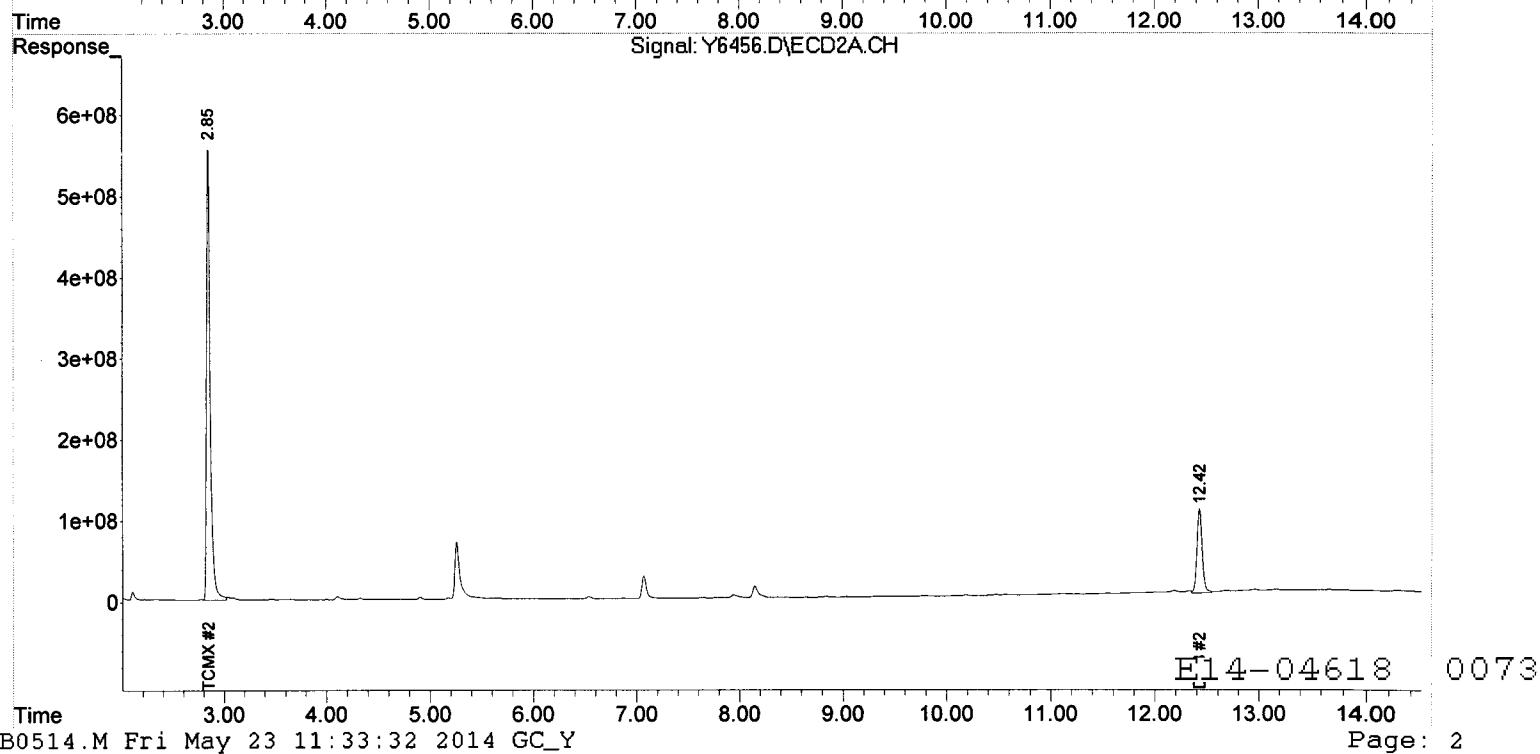
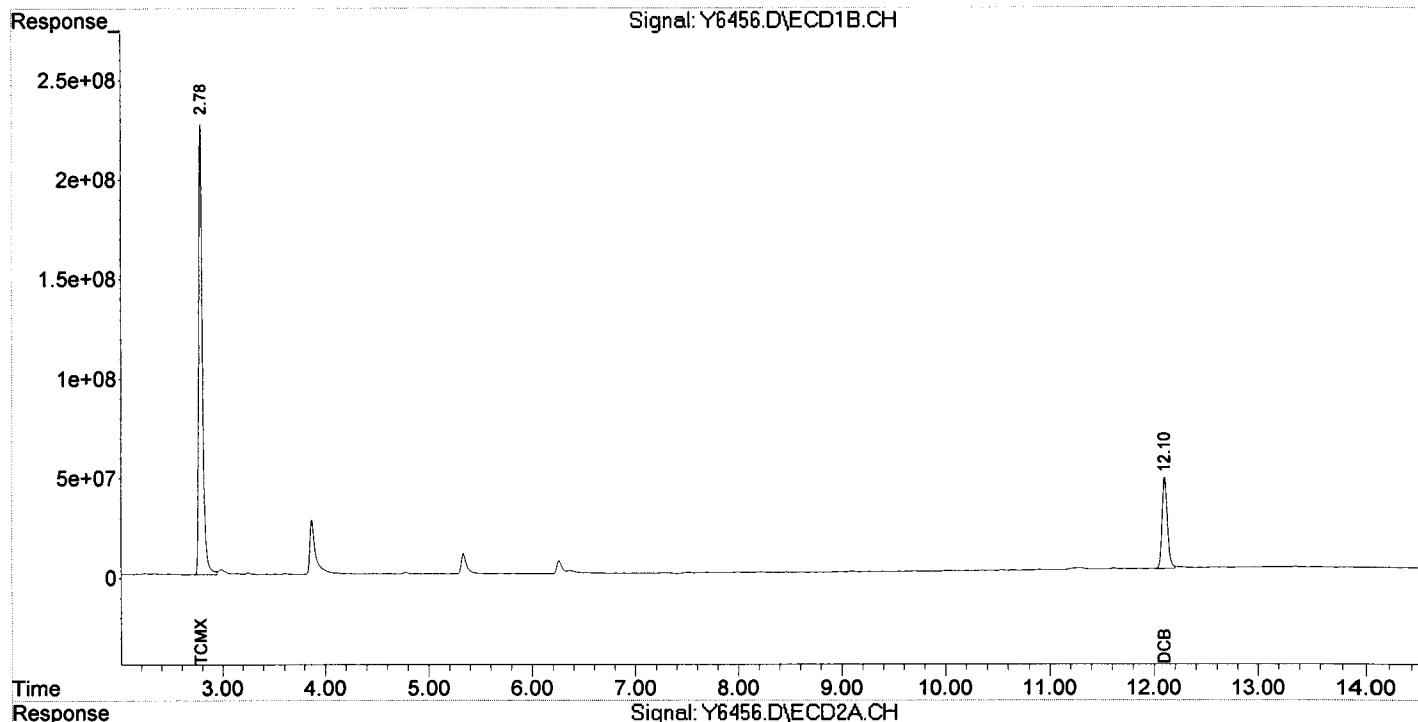
E14-04618 0072

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
Data File : Y6456.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 22 May 2014 19:05
Operator : NG
Sample : Z-50_(2.,E14-04618-008,S,5.81g,82.0,20
Misc : 140522-06,05/22/14,05/21/14,1
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 23 10:54:45 2014
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
Quant Title :
QLast Update : Mon May 19 16:51:54 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
 Data File : Y6457.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 22 May 2014 19:23
 Operator : NG
 Sample : Y-51_(2.,E14-04618-009,S,5.74g,23.1,20
 Misc : 140522-06,05/22/14,05/21/14,1
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: May 23 10:56:05 2014
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
 Quant Title :
 QLast Update : Mon May 19 16:51:54 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>							
1) S	TCMX	2.79	2.85	4460.9E6	10501.8E6	232.177	226.829
Spiked Amount	200.000			Recovery	=	116.09%	113.41%
<hr/>							
2) S	DCB	12.10	12.42	1190.3E6	2946.1E6	203.050	226.679
Spiked Amount	200.000			Recovery	=	101.53%	113.34%
<hr/>							
Target Compounds							
Sum Aroclor-1016				0	0	N.D.	N.D.
Average Aroclor-1016						0.000	0.000
Sum Aroclor-1221				0	0	N.D.	N.D.
Average Aroclor-1221						0.000	0.000
Sum Aroclor-1232				0	0	N.D.	N.D.
Average Aroclor-1232						0.000	0.000
Sum Aroclor-1242				0	0	N.D.	N.D.
Average Aroclor-1242						0.000	0.000
23) L6	Aroclor-1248	4.48	5.06	6581068	11758460	8.092	6.136
24) L6	Aroclor-1248 {2}	5.02	5.64	5309297	37845616	11.920	13.469m
25) L6	Aroclor-1248 {3}	0.00	6.04	0	26546958	N.D. d	12.787m#
26) L6	Aroclor-1248 {4}	6.04	6.20	10416607	15510737	10.167	8.035m
27) L6	Aroclor-1248 {5}	0.00	6.54	0	9610530	N.D. d	8.864 #
Sum Aroclor-1248				22306972	101.3E6	30.179	49.292
Average Aroclor-1248						10.060	9.858
Sum Aroclor-1254				0	0	N.D.	N.D.
Average Aroclor-1254						0.000	0.000
Sum Aroclor-1260				0	0	N.D.	N.D.
Average Aroclor-1260						0.000	0.000
Sum Aroclor-1262				0	0	N.D.	N.D.
Average Aroclor-1262						0.000	0.000
Sum Aroclor-1268				0	0	N.D.	N.D.
Average Aroclor-1268						0.000	0.000
<hr/>							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

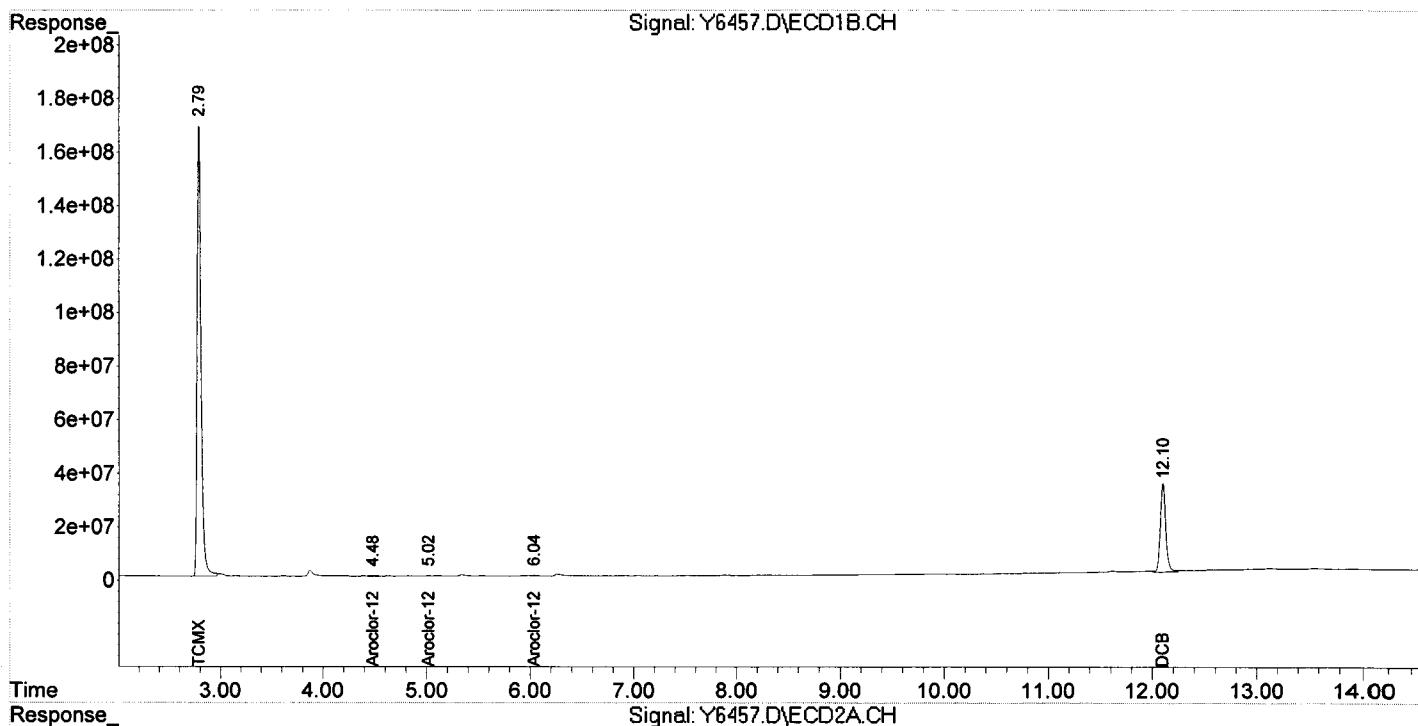
E14-04618 0074

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
Data File : Y6457.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 22 May 2014 19:23
Operator : NG
Sample : Y-51_(2.,E14-04618-009,S,5.74g,23.1,20
Misc : 140522-06.05/22/14,05/21/14,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 23 10:56:05 2014
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
Quant Title :
QLast Update : Mon May 19 16:51:54 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



E14-04618 0075

P#2

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
 Data File : Y6458.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 22 May 2014 19:41
 Operator : NG
 Sample : D-1_(0-2,E14-04618-010,S,5.64g,30.6,20
 Misc : 140522-06,05/22/14,05/21/14,1
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: May 23 11:11:25 2014
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
 Quant Title :
 QLast Update : Mon May 19 16:51:54 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.79	2.85	4042.6E6	9724.5E6	210.404	210.042
Spiked Amount	200.000		Recovery	=	105.20%	105.02%
2) S DCB	12.10	12.42	1579.6E6	3041.9E6	269.467m	234.043m
Spiked Amount	200.000		Recovery	=	134.73%	117.02%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.48	5.06	1883.9E6	4166.7E6	2316.306	2174.513
24) L6 Aroclor-1248 {2}	5.02	5.64	2571.3E6	16217.7E6	5773.018	5771.775
25) L6 Aroclor-1248 {3}	5.34	6.04	3460.6E6	12292.1E6	6079.175	5921.027
26) L6 Aroclor-1248 {4}	6.04	6.19	5790.4E6	7742.3E6	5651.886	4010.609 #
27) L6 Aroclor-1248 {5}	6.30	6.53	4815.7E6	6355.1E6	6251.241	5861.471
Sum Aroclor-1248			18521.9E6	46774.0E6	26071.625	23739.395
Average Aroclor-1248					5214.325	4747.879
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

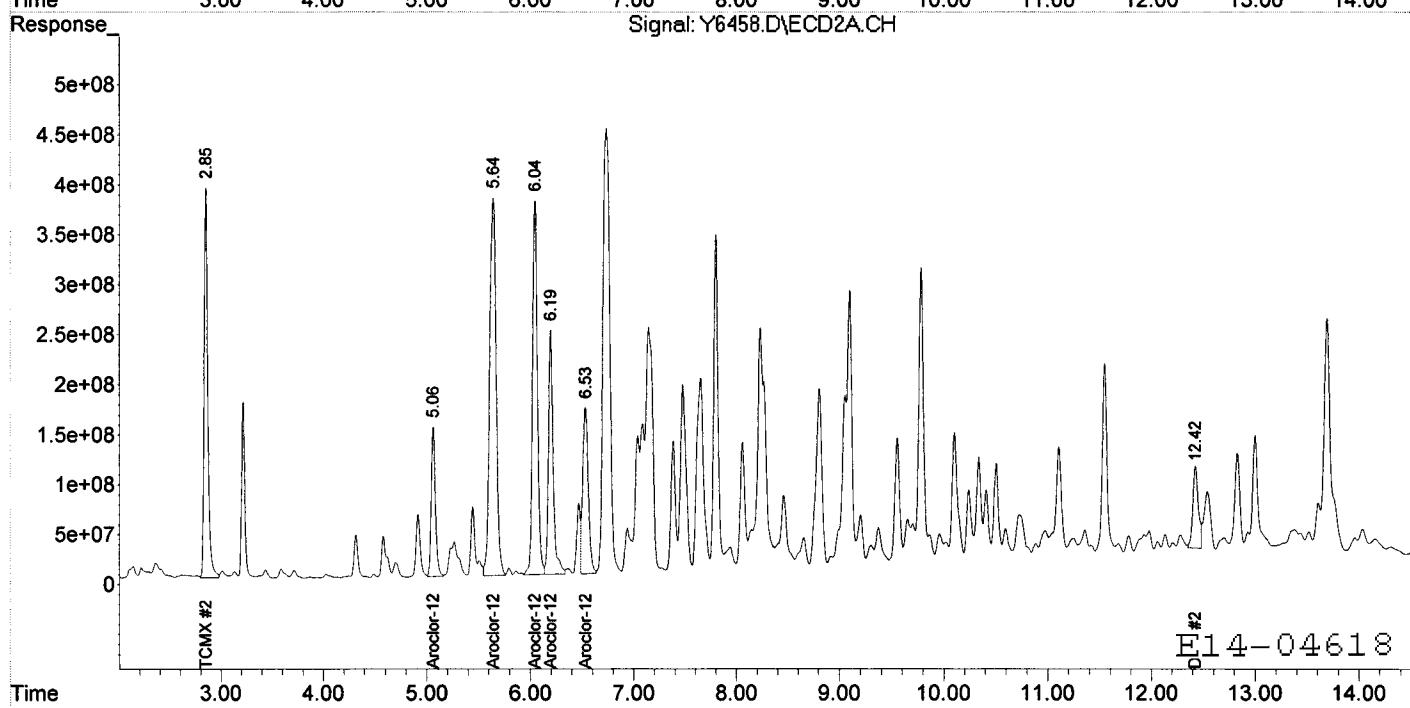
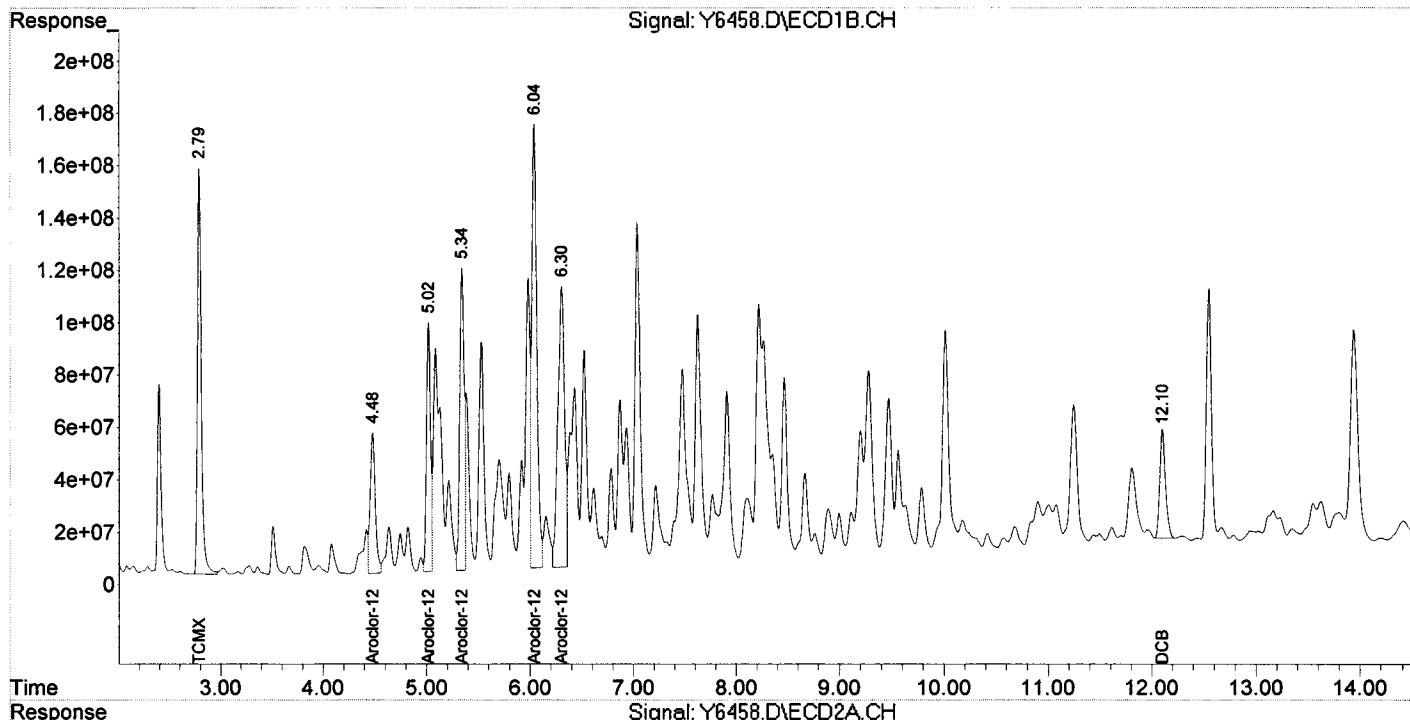
E14-04618 0076

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
Data File : Y6458.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 22 May 2014 19:41
Operator : NG
Sample : D-1_(0-2,E14-04618-010,S,5.64g,30.6,20
Misc : 140522-06,05/22/14,05/21/14,1
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 23 11:11:25 2014
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
Quant Title :
QLast Update : Mon May 19 16:51:54 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-23-14\
 Data File : Y6479.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 23 May 2014 9:37
 Operator : NG
 Sample : D-1_(0-2,E14-04618-010DL,S,5.64g,30.6.20
 Misc : 140522-06,05/22/14,05/21/14,5
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: May 23 11:25:38 2014
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
 Quant Title :
 QLast Update : Mon May 19 16:51:54 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.79	2.85	965.2E6	2280.1E6	50.234	49.247
Spiked Amount	200.000		Recovery	=	25.12%	24.62%
2) S DCB	12.10	12.42	324.8E6	620.0E6	55.401m	47.703m
Spiked Amount	200.000		Recovery	=	27.70%	23.85%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.48	5.06	463.3E6	1026.7E6	569.599	535.834
24) L6 Aroclor-1248 {2}	5.02	5.64	652.7E6	3789.3E6	1465.352	1348.570
25) L6 Aroclor-1248 {3}	5.34	6.04	812.6E6	2905.2E6	1427.473m	1399.393
26) L6 Aroclor-1248 {4}	6.04	6.19	1409.2E6	1825.0E6	1375.477	945.395 #
27) L6 Aroclor-1248 {5}	6.30	6.53	1024.1E6	1409.7E6	1329.388	1300.227
Sum Aroclor-1248			4361.8E6	10955.9E6	6167.289	5529.419
Average Aroclor-1248					1233.458	1105.884
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

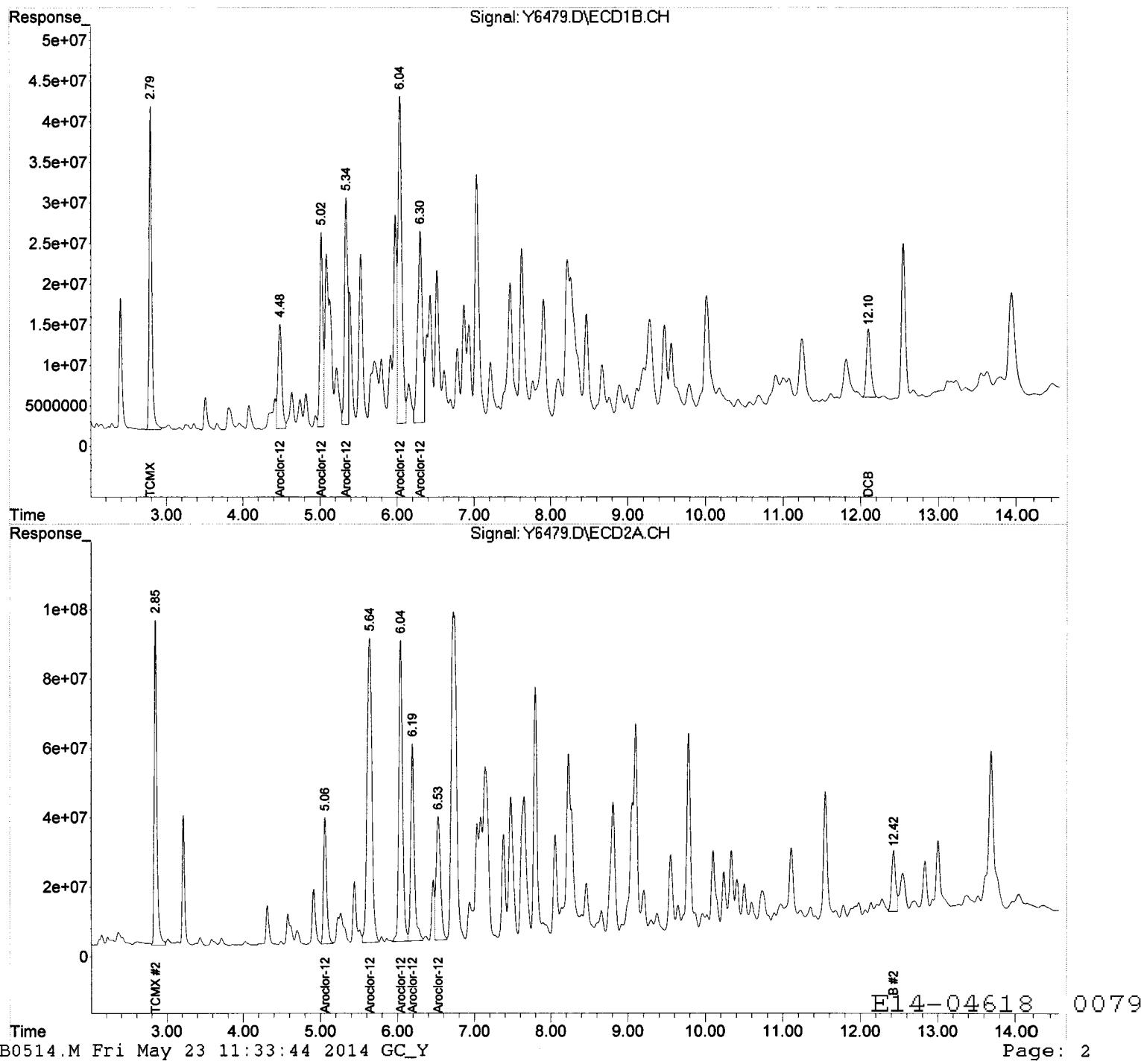
E14-04618 0078

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-23-14\
Data File : Y6479.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 May 2014 9:37
Operator : NG
Sample : D-1_(0-2,E14-04618-010DL,S,5.64g,30.6,20
Misc : 140522-06,05/22/14,05/21/14,5
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 23 11:25:38 2014
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
Quant Title :
QLast Update : Mon May 19 16:51:54 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
 Data File : Y6459.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 22 May 2014 19:58
 Operator : NG
 Sample : C-2_(0-2,E14-04618-011,S,5.86g,35.9,20
 Misc : 140522-06,05/22/14,05/21/14,1
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: May 23 11:15:07 2014
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
 Quant Title :
 QLast Update : Mon May 19 16:51:54 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.79	2.85	4561.1E6	9303.5E6	237.390	200.947
Spiked Amount	200.000		Recovery	=	118.69%	100.47%
2) S DCB	12.10	12.42	1230.7E6	3402.5E6	209.941m	261.789m
Spiked Amount	200.000		Recovery	=	104.97%	130.89%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.48	5.06	17604.0E6	44997.5E6	21645.017	23483.241
24) L6 Aroclor-1248 {2}	5.02	5.66	13892.0E6	102071.4E6	31189.647	36326.468
25) L6 Aroclor-1248 {3}	5.34	6.05	28634.3E6	78429.2E6	50302.013m	37778.754
26) L6 Aroclor-1248 {4}	6.04	6.20	42247.2E6	69754.1E6	41236.430	36133.587
27) L6 Aroclor-1248 {5}	6.30	6.54	32690.3E6	36495.7E6	42435.244	33660.752
Sum Aroclor-1248			135067.8E6	331747.8E6	186808.351	167382.801
Average Aroclor-1248					37361.670	33476.560
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

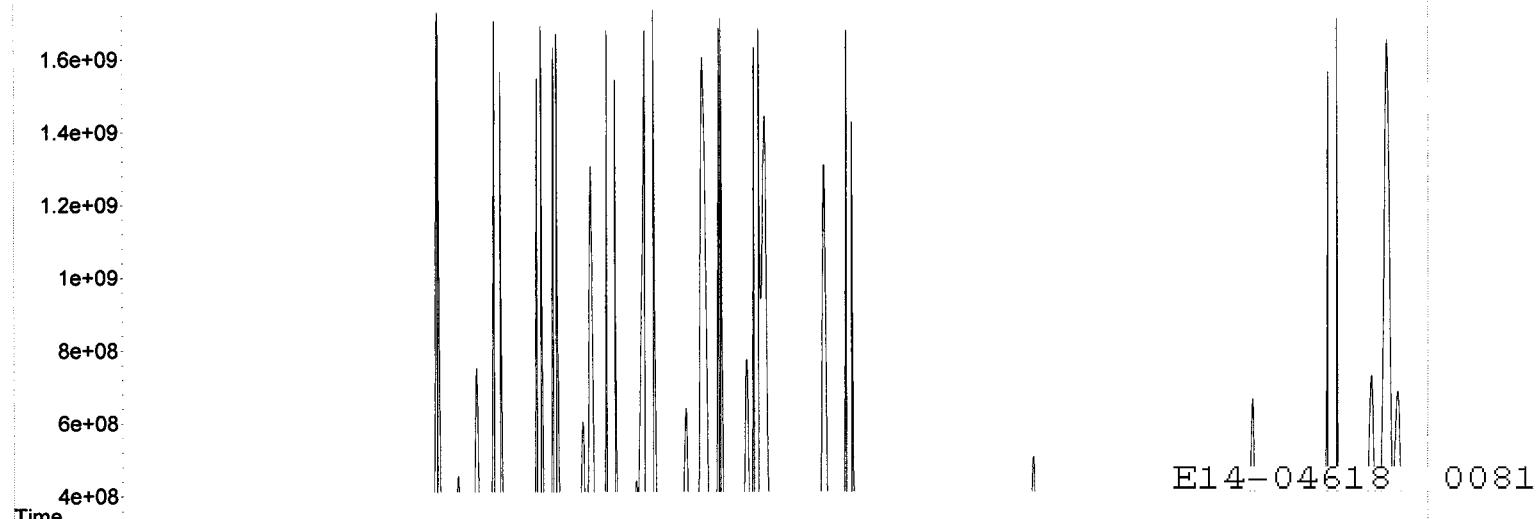
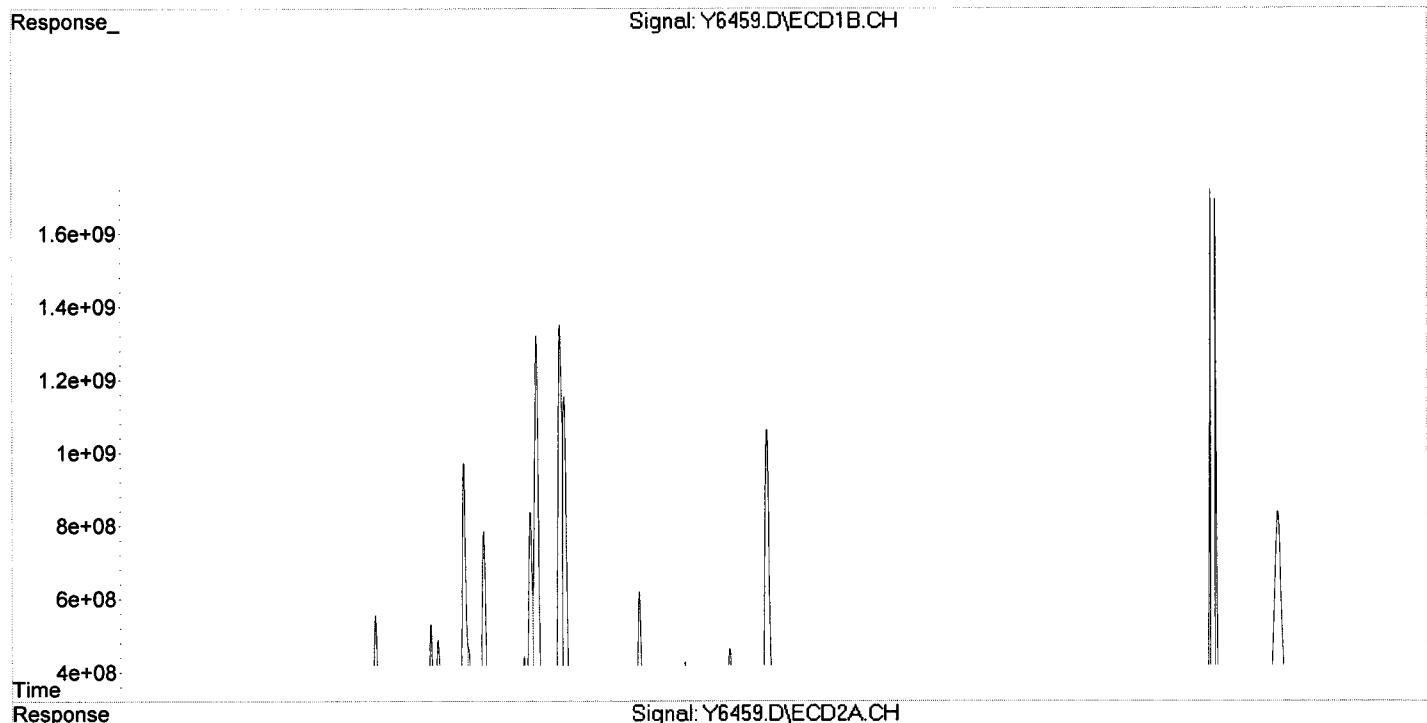
E14-04618 0080

Quantitation Report (QT Reviewed)

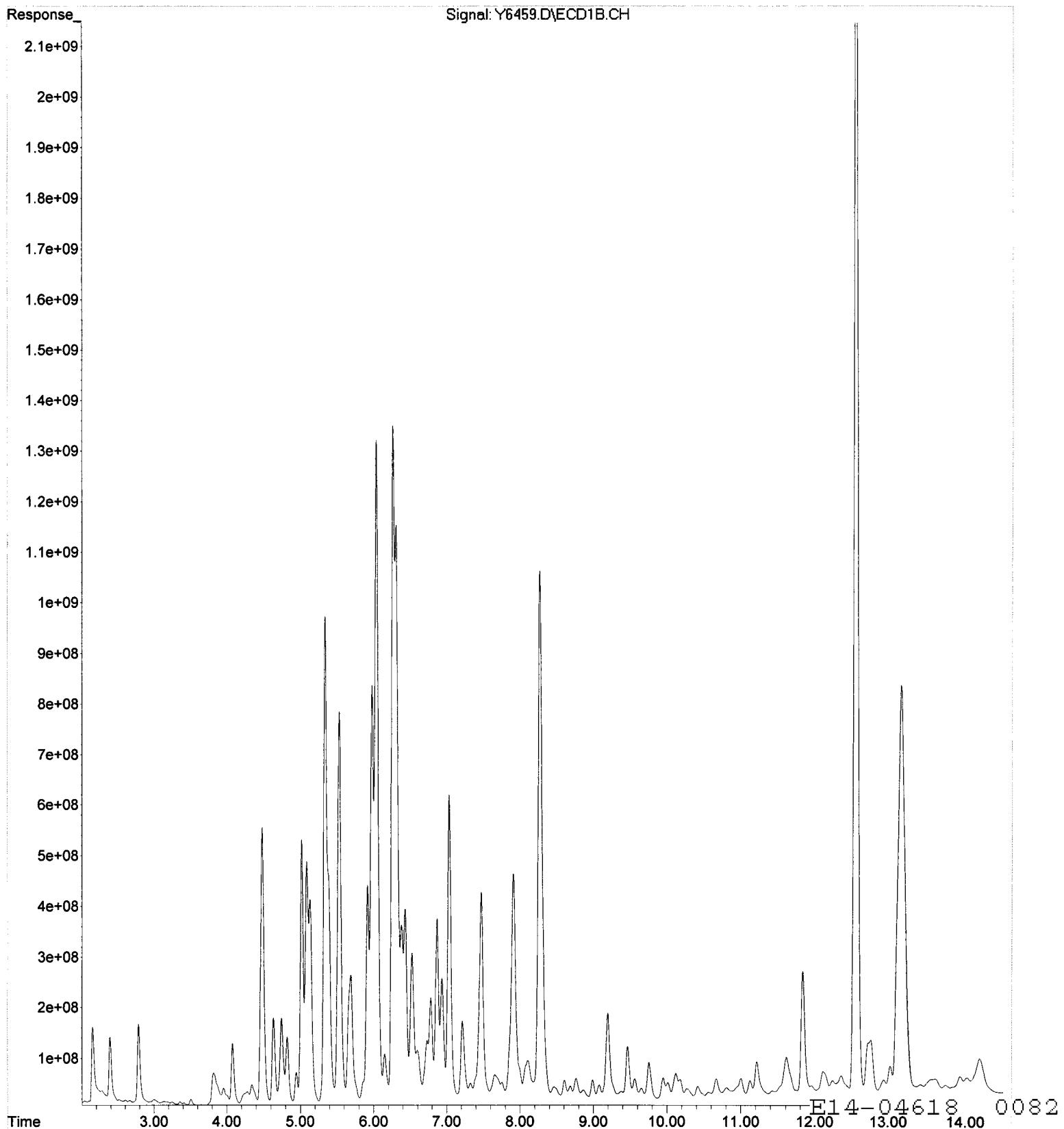
Data Path : C:\MSDCHEM\1\DATA\05-22-14\
Data File : Y6459.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 22 May 2014 19:58
Operator : NG
Sample : C-2_(0-2,E14-04618-011,S,5.86g,35.9,20
Misc : 140522-06,05/22/14,05/21/14,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 23 11:15:07 2014
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
Quant Title :
QLast Update : Mon May 19 16:51:54 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

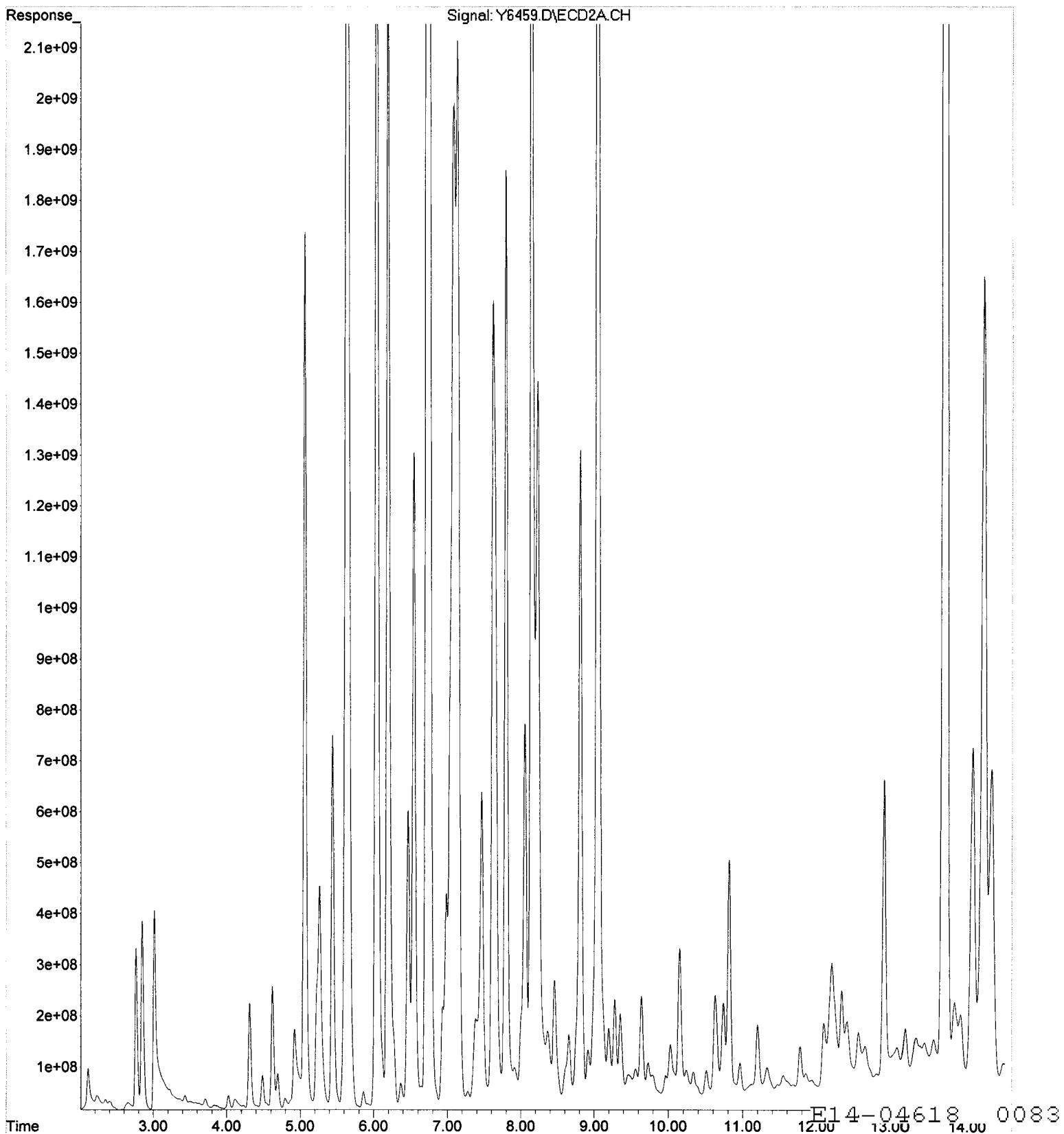
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



File : C:\MSDChem\1\DATA\05-22-14\Y6459.D
Operator : NG
Acquired : 22 May 2014 19:58 using AcqMethod YPCB0514.M
Instrument : GC-Y
Sample Name: C-2_(0-2,E14-04618-011,S,5.86g,35.9,20
Misc Info : 140522-06,05/22/14,05/21/14,1
Vial Number: 21



File : C:\MSDChem\1\DATA\05-22-14\Y6459.D
Operator : NG
Acquired : 22 May 2014 19:58 using AcqMethod YPCB0514.M
Instrument : GC-Y
Sample Name: C-2_(0-2,E14-04618-011,S,5.86g,35.9,20
Misc Info : 140522-06,05/22/14,05/21/14,1
Vial Number: 21



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-23-14\
 Data File : Y6480.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 23 May 2014 9:55
 Operator : NG
 Sample : C-2_(0-2,E14-04618-011DL,S,5.86g,35.9,20
 Misc : 140522-06,05/22/14,05/21/14,50
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: May 23 11:13:26 2014
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
 Quant Title :
 QLast Update : Mon May 19 16:51:54 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.79	2.85	105.1E6	215.2E6	5.472	4.649
Spiked Amount	200.000		Recovery	=	2.74%	2.32%
2) S DCB	12.10	12.41	33706928	67678849	5.750m	5.207m
Spiked Amount	200.000		Recovery	=	2.88%	2.60%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.48	5.06	416.6E6	1000.7E6	512.262	522.258
24) L6 Aroclor-1248 {2}	5.02	5.65	340.1E6	2242.1E6	763.555	797.936
25) L6 Aroclor-1248 {3}	5.34	6.04	601.5E6	1707.0E6	1056.624m	822.259
26) L6 Aroclor-1248 {4}	6.04	6.19	978.0E6	1444.6E6	954.622	748.304
27) L6 Aroclor-1248 {5}	6.30	6.54	887.9E6	822.2E6	1152.646m	758.291 #
Sum Aroclor-1248			3224.2E6	7216.5E6	4439.709	3649.047
Average Aroclor-1248					887.942	729.809
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

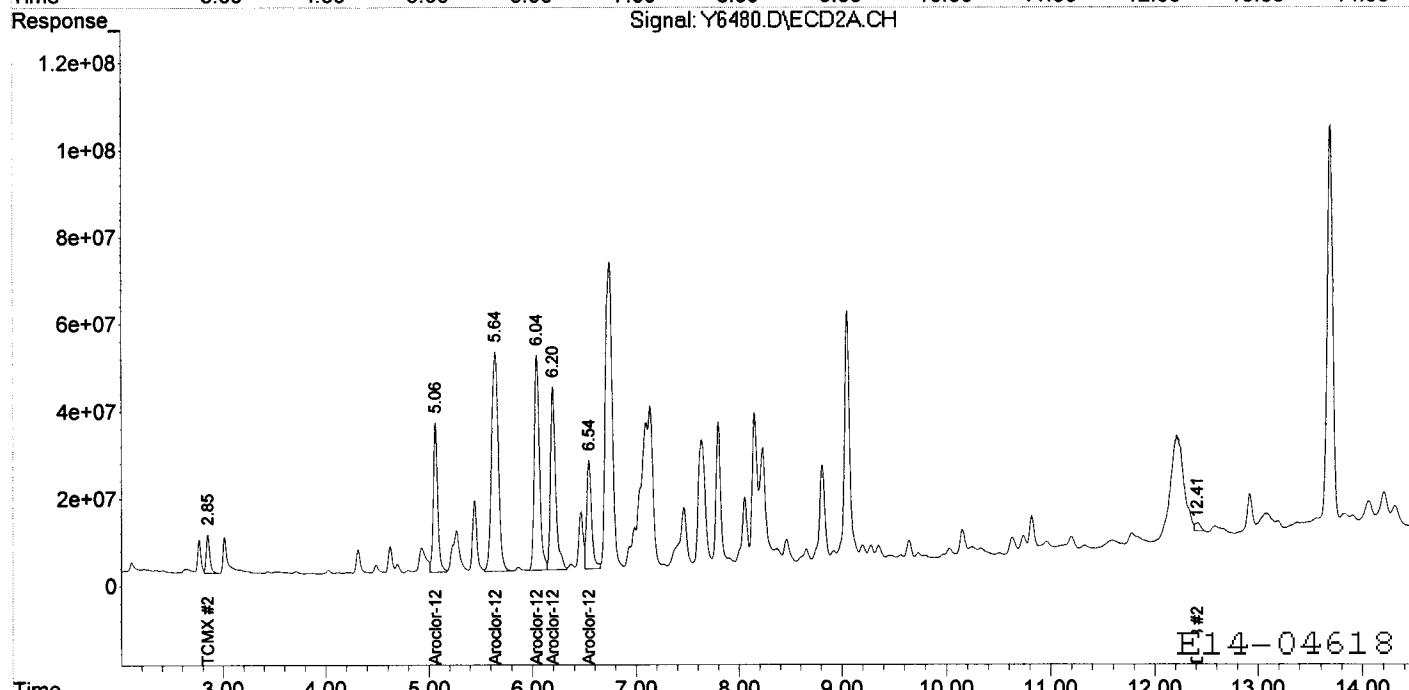
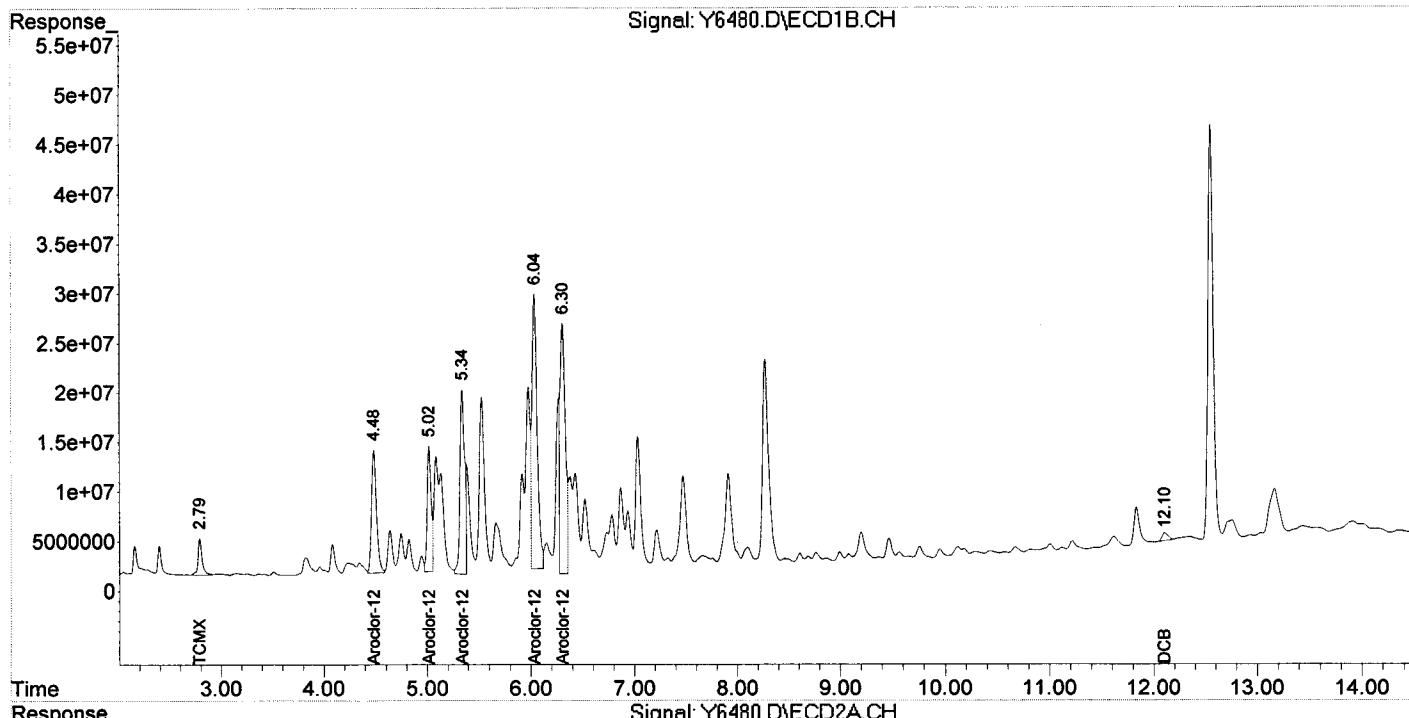
E14-04618 0084

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-23-14\
Data File : Y6480.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 May 2014 9:55
Operator : NG
Sample : C-2_(0-2,E14-04618-011DL,S,5,86g,35.9,20
Misc : 140522-06,05/22/14,05/21/14,50
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 23 11:13:26 2014
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
Quant Title :
QLast Update : Mon May 19 16:51:54 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-23-14\
 Data File : Y6485.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 23 May 2014 11:47
 Operator : NG
 Sample : FB-1.E14-04618-012.A.1000ml.100,5
 Misc : 140522-09.05/22/14.05/21/14.1
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: May 23 12:22:56 2014
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
 Quant Title :
 QLast Update : Mon May 19 16:51:54 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.78	2.85	3493.9E6	7965.1E6	181.848	172.039
Spiked Amount	200.000			Recovery	= 90.92%	86.02%
2) S DCB	12.10	12.42	961.7E6	2062.4E6	164.063	158.684
Spiked Amount	200.000			Recovery	= 82.03%	79.34%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

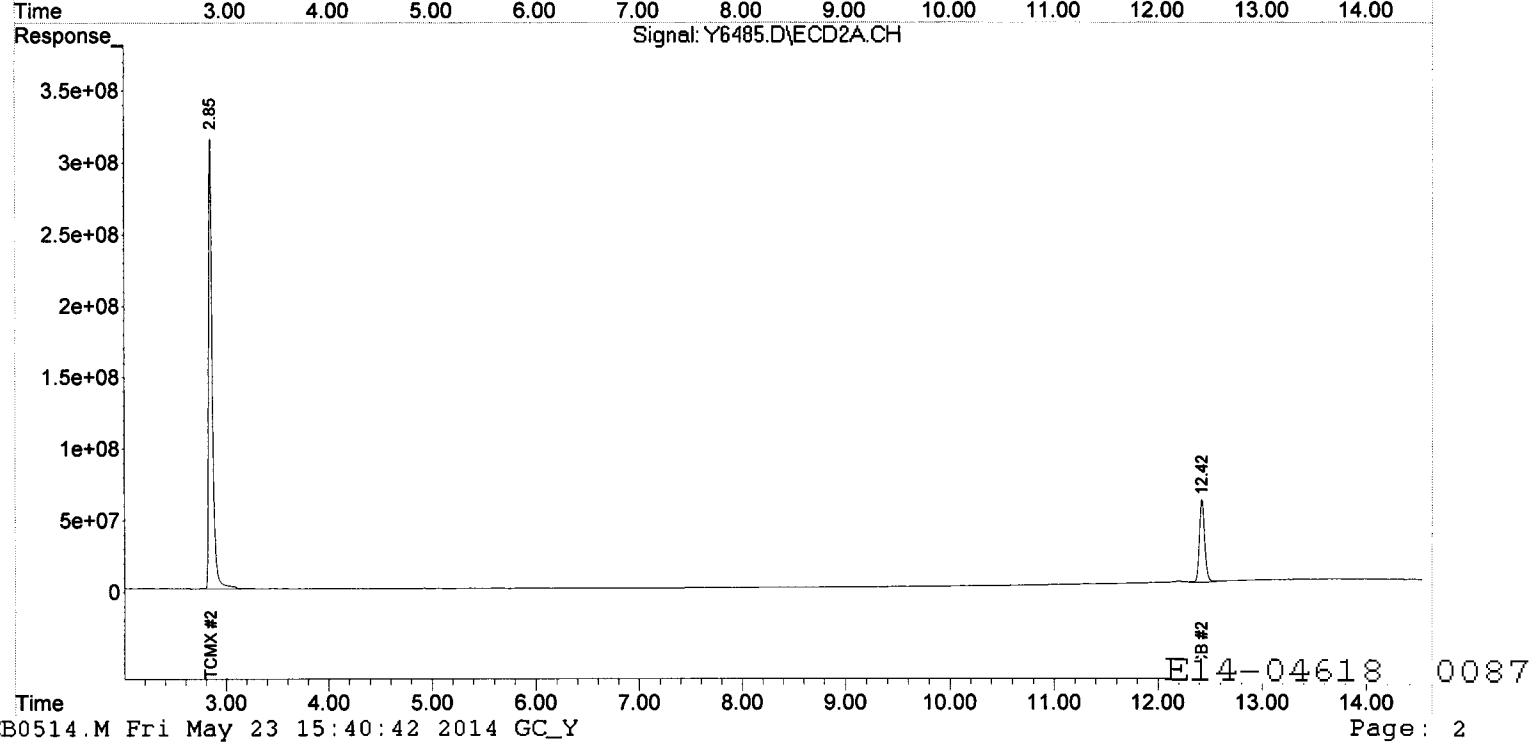
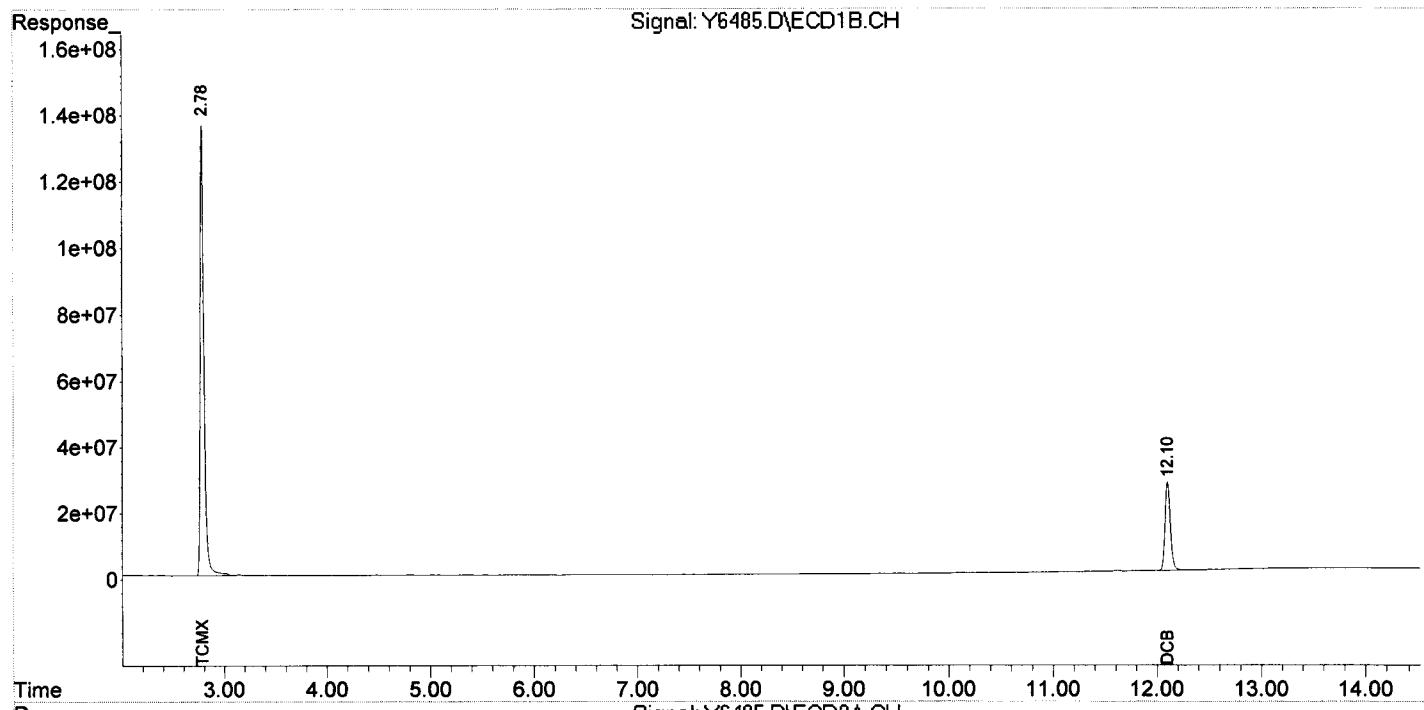
E14-04618 0086

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-23-14\
Data File : Y6485.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 May 2014 11:47
Operator : NG
Sample : FB-1.E14-04618-012.A,1000ml,100,5
Misc : 140522-09,05/22/14,05/21/14,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 23 12:22:56 2014
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
Quant Title :
QLast Update : Mon May 19 16:51:54 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: BLKS140522-06

Client ID: PCB

Date Received: NA

Date Extracted: 05/22/2014

Date Analyzed: 05/22/2014

Data file: Y6445.D

GC Column: DB-5/DB1701P

Sample wt/vol: 5g

Matrix-Units: Soil-mg/Kg

Dilution Factor: 1

% Moisture: NA

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.040	0.016
Aroclor-1221	ND		0.040	0.016
Aroclor-1232	ND		0.040	0.016
Aroclor-1242	ND		0.040	0.016
Aroclor-1248	ND		0.040	0.016
Aroclor-1254	ND		0.040	0.016
Aroclor-1260	ND		0.040	0.016
Aroclor-1262	ND		0.040	0.016
Aroclor-1268	ND		0.040	0.016
PCBs	ND		0.040	0.016

D --- Dilution Performed

J --- Value Less than RL & greater than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
 Data File : Y6445.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 22 May 2014 14:49
 Operator : NG
 Sample : PCB.BLKS140522-06,S,5g,0,20
 Misc : NA,05/22/14,NA,1
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: May 22 15:33:33 2014
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
 Quant Title :
 QLast Update : Mon May 19 16:51:54 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.79	2.86	4052.4E6	9283.6E6	210.918	200.519
Spiked Amount	200.000			Recovery	= 105.46%	100.26%
2) S DCB	12.10	12.43	1134.0E6	2588.3E6	193.452	199.148
Spiked Amount	200.000			Recovery	= 96.73%	99.57%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D. 0.000	N.D. 0.000
Average Aroclor-1016						
Sum Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
Average Aroclor-1221						
Sum Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
Average Aroclor-1232						
Sum Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
Average Aroclor-1242						
Sum Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
Average Aroclor-1248						
Sum Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
Average Aroclor-1254						
Sum Aroclor-1260			0	0	N.D. 0.000	N.D. 0.000
Average Aroclor-1260						
Sum Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
Average Aroclor-1262						
Sum Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
Average Aroclor-1268						
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

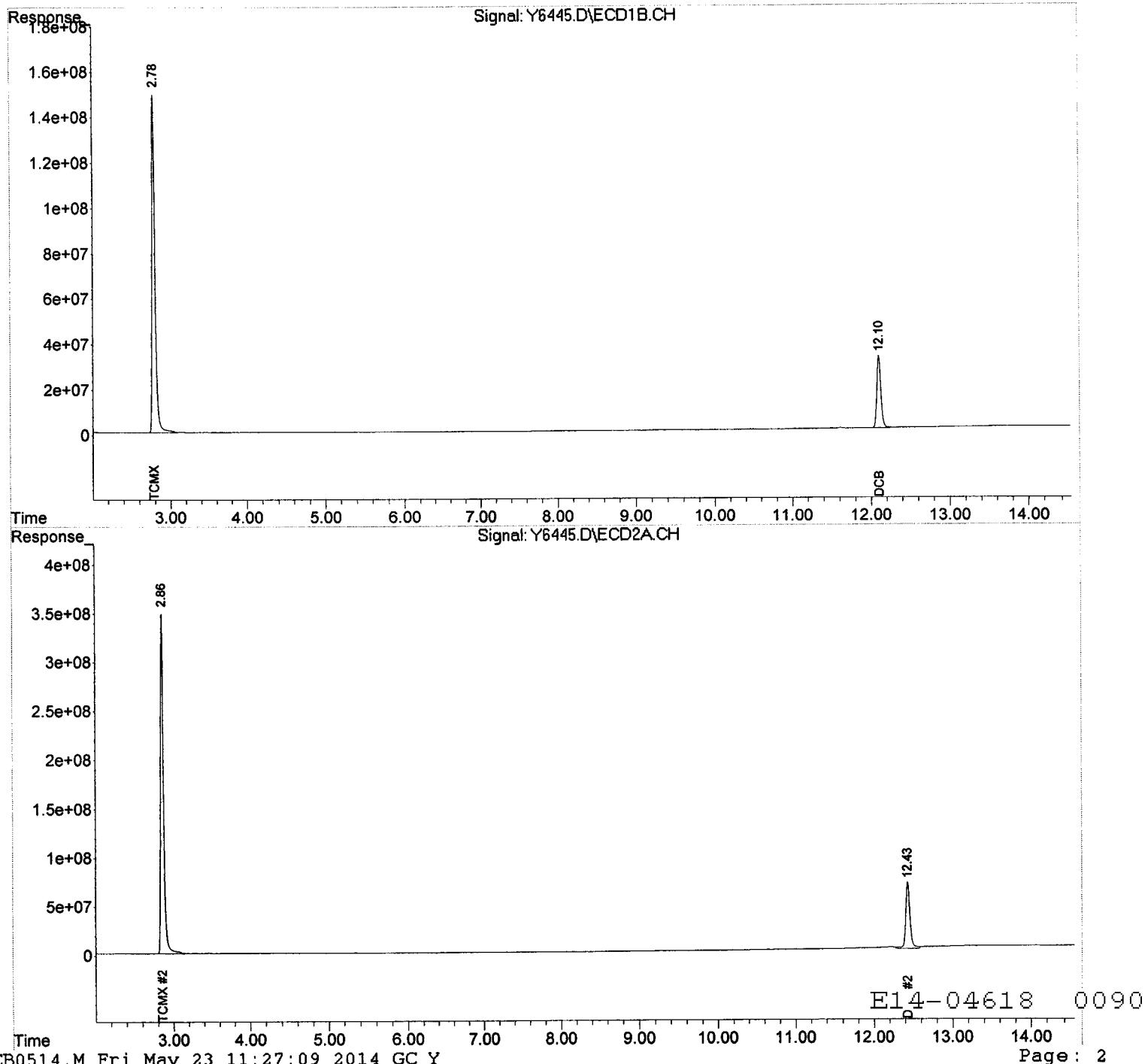
E14-04618 0089

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-22-14\
Data File : Y6445.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 22 May 2014 14:49
Operator : NG
Sample : PCB.BLKS140522-06.S, 5g, 0, 20
Misc : NA, 05/22/14, NA, 1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 22 15:33:33 2014
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
Quant Title :
QLast Update : Mon May 19 16:51:54 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: BLKA140513-07
Client ID: PCB
Date Received: NA
Date Extracted: 05/13/2014
Date Analyzed: 05/15/2014
Data file: Y6280.D

GC Column: DB-5/DB1701P
Sample wt/vol: 1000ml
Matrix-Units: Aqueous- μ g/L
Dilution Factor: 1
% Moisture: 100

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.050	0.020
Aroclor-1221	ND		0.050	0.020
Aroclor-1232	ND		0.050	0.020
Aroclor-1242	ND		0.050	0.020
Aroclor-1248	ND		0.050	0.020
Aroclor-1254	ND		0.050	0.020
Aroclor-1260	ND		0.050	0.020
Aroclor-1262	ND		0.050	0.020
Aroclor-1268	ND		0.050	0.020
PCBs	ND		0.050	0.020

D --- Dilution Performed

J --- Value Less than RL & greater than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

E14-04618 0091

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: BLKA140522-09

Client ID: PCB

Date Received: NA

Date Extracted: 05/22/2014

Date Analyzed: 05/23/2014

Data file: Y6482.D

GC Column: DB-5/DB1701P

Sample wt/vol: 1000ml

Matrix-Units: Aqueous- μ g/L

Dilution Factor: 1

% Moisture: 100

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.050	0.020
Aroclor-1221	ND		0.050	0.020
Aroclor-1232	ND		0.050	0.020
Aroclor-1242	ND		0.050	0.020
Aroclor-1248	ND		0.050	0.020
Aroclor-1254	ND		0.050	0.020
Aroclor-1260	ND		0.050	0.020
Aroclor-1262	ND		0.050	0.020
Aroclor-1268	ND		0.050	0.020
PCBs	ND		0.050	0.020

D --- Dilution Performed

J --- Value Less than RL & greater than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

E14-04618 0092

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-23-14\
 Data File : Y6482.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 23 May 2014 10:54
 Operator : NG
 Sample : PCB,BLKA140522-09,A,1000ml,100,5
 Misc : NA,05/22/14,NA,1
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: May 23 12:20:58 2014
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
 Quant Title :
 QLast Update : Mon May 19 16:51:54 2014
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : -
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>							
1)	S TCMX	2.79	2.85	3998.1E6	9208.2E6	208.087	198.889
	Spiked Amount	200.000			Recovery	= 104.04%	99.44%
2)	S DCB	12.10	12.43	1037.6E6	2252.0E6	177.015	173.273
	Spiked Amount	200.000			Recovery	= 88.51%	86.64%
<hr/>							
System Monitoring Compounds							
Sum Aroclor-1016				0	0	N.D.	N.D.
Average Aroclor-1016						0.000	0.000
Sum Aroclor-1221				0	0	N.D.	N.D.
Average Aroclor-1221						0.000	0.000
Sum Aroclor-1232				0	0	N.D.	N.D.
Average Aroclor-1232						0.000	0.000
Sum Aroclor-1242				0	0	N.D.	N.D.
Average Aroclor-1242						0.000	0.000
Sum Aroclor-1248				0	0	N.D.	N.D.
Average Aroclor-1248						0.000	0.000
Sum Aroclor-1254				0	0	N.D.	N.D.
Average Aroclor-1254						0.000	0.000
Sum Aroclor-1260				0	0	N.D.	N.D.
Average Aroclor-1260						0.000	0.000
Sum Aroclor-1262				0	0	N.D.	N.D.
Average Aroclor-1262						0.000	0.000
Sum Aroclor-1268				0	0	N.D.	N.D.
Average Aroclor-1268						0.000	0.000
<hr/>							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

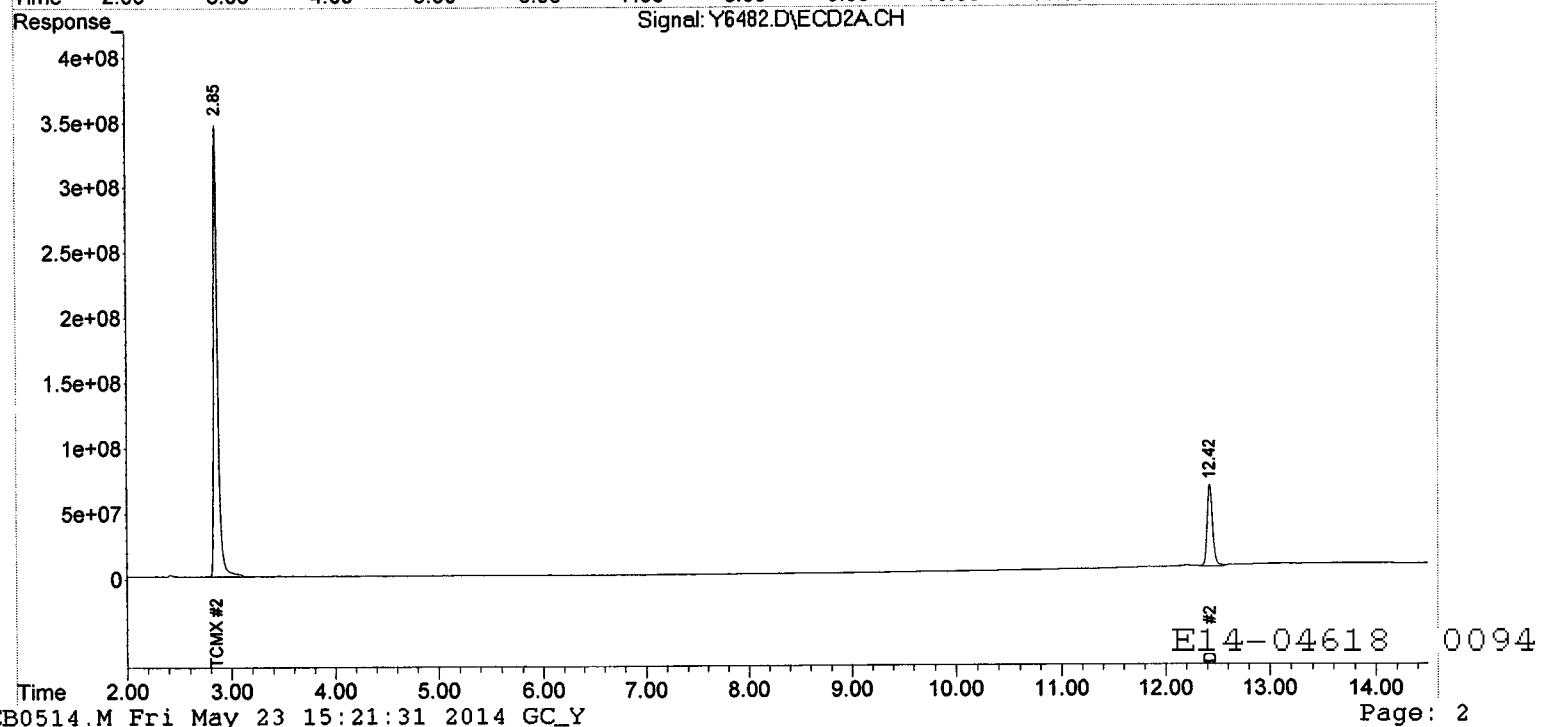
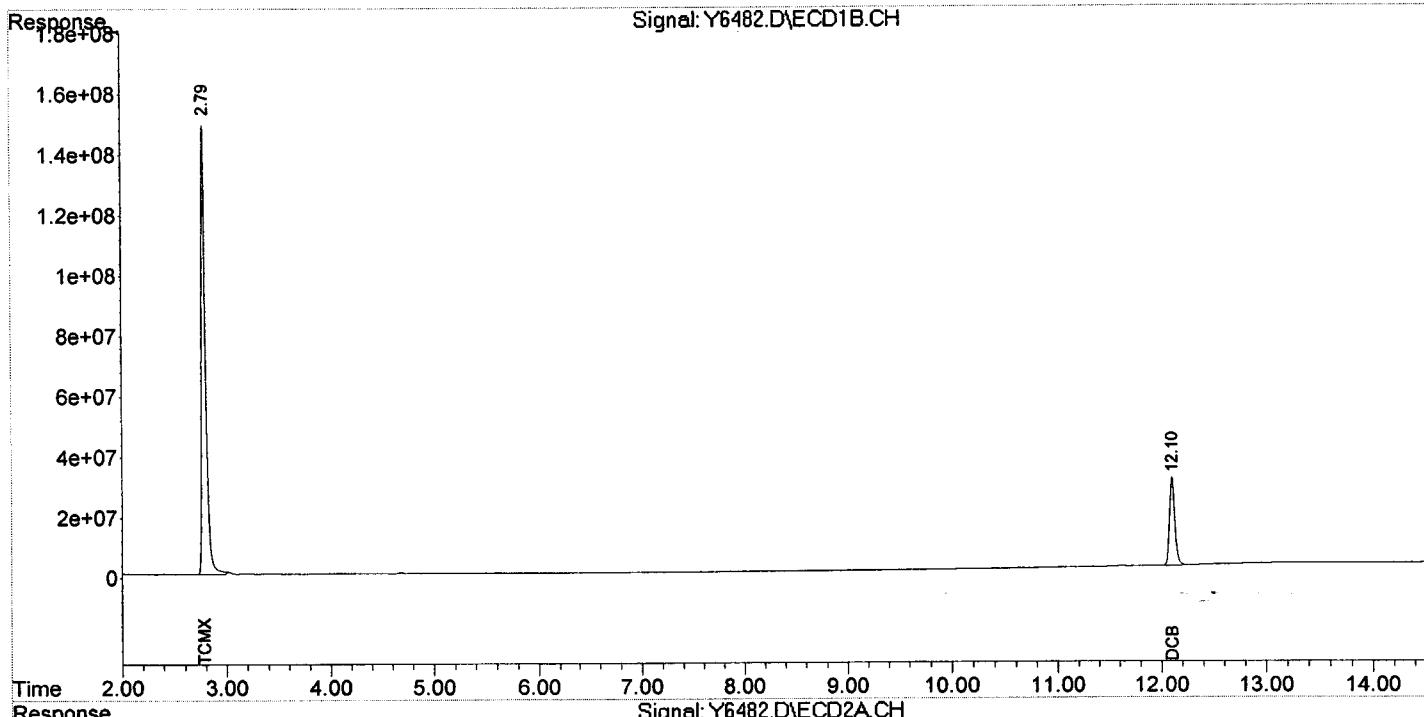
E14-04618 0093

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\05-23-14\
Data File : Y6482.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 May 2014 10:54
Operator : NG
Sample : PCB, BLKA140522-09, A, 1000ml, 100, 5
Misc : NA, 05/22/14, NA, 1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 23 12:20:58 2014
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0514.M
Quant Title :
QLast Update : Mon May 19 16:51:54 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.:
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



SAMPLE TRACKING

E14-04618 0095



Integrated Analytical Labs
273 Franklin Road
Randolph, NJ 07869

Contact Us: 973-361-4252

Fax: 973-989-5288

Web: www.ialonline.com

CUSTOMER INFO	
Company: <u>JMC Environmental</u>	
Address: <u>2109 Bridgeview Blvd B</u>	
<u>PT - Pleasant NJ 08742</u>	
Telephone #:	<u>732-295-2144</u>
Fax #:	<u>732-295-2150</u>
Project Manager:	<u>James Clabby</u>
EMAIL Address:	<u>James.Clabby@JMCEnvironmental.com</u>
Sampled by:	<u>C. Cho</u>
COMPLETED BY IAL:	
Field Sampling	Equipment Rental
Project Name: <u>AT&T Inc</u>	
Project Location (State): <u>NJ</u>	
Bottle Order #:	

REPORTING INFO	
REPORT TO: <u>James Clabby</u>	
Address: <u>Same</u>	
Attn: <u></u>	
FAX # <u>732-295-2150</u>	
INVOICE TO: <u>Acero Corp.</u>	
Address: <u>4 Tri Harbor Court</u>	
<u>Port Washington NY 11050</u>	
(With copy to JMC Attn: James Clabby)	
Attn: <u>ED Kelly</u>	
PO # <u>22126</u>	
Quote # <u>SR041205</u>	

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved. Turnaround Time starts the following day if samples rec'd at lab > 5PM

*Lab notification is required for RUSH TAT prior to sample arrival. RUSH TAT IS NOT GUARANTEED WITHOUT LAB APPROVAL. **RUSH SURCHARGES WILL APPLY IF ABLE TO ACCOMMODATE

PHC - MUST CHOOSE		Rush TAT Charge **	Report Format	EDDs
NJ EPH DRO (5 day TAT)	NJ EPH Fractionated (5 day TAT)	<u>NJ Results Only</u>	<u>NJ SRP format</u>	
NJ EPH - C40 (5 day TAT)	DRO-8015 (3-5 day TAT)	<u>NY Cat A</u>	<u>NYSDEC</u>	
	QAM025	<u>NJ Reduced</u>		
		<u>NJ Regulatory</u>		
		<u>NY Cat B</u>	lab approved custom	
		<u>15% Surcharge applies</u>	EDD	
		<u>Other (describe)</u>	NO EDD/CD REQ'D	
24 hr**	48 hr**	72 hr**	96 hr**	1 wk**
Verbal/Fax: Std 2 wk unless otherwise specified				
Other** (specify): _____				
Hard Copy: Std 3 week * Other - call for price				
Cooler Temp <u>4</u> °C				

SAMPLE INFORMATION

DW - Drinking Water AQ - Aqueous WW - Waste Water OI - Oil
LIQ - Liquid (Specify) S - Soil SL - Sludge SOL - Solid W - Wipe

Client ID	Depth (ft only)	Sampling		Matrix	# container s	IAL #	TCL PCB
		Date	Time				
A-1 (0-2.0)		5/21/14	9:45	S	1	1	X
A-1 (2.0-4.0)			9:47	S	1	2	X
A-2 (0-2.0)			10:15	S	1	3	X
A-2 (2.0-4.0)			10:18	S	1	4	X
A-3 (0-2.0)			10:47	S	1	5	X
I-1 (0-2.0)			11:08	S	1	6	X
Y-49 (2.0-3.0)			12:18	S	1	7	X
Z-50 (2.0-3.0)			1:15	S	1	8	X

Known Hazard: Yes or No

Conc. Expected: Low Med High

Describe:

Carrier (check one): IAL Courier Client Courier FedEx/UPS

Signature/Company	Date	Time	Signature/Company	Date	Time
Relinq <u>ed by:</u> 	5/21/14	15:00	Received by: 	5/21/14	15:00
Relinq <u>ed by:</u> 	5/21/14	17:26	Received by: 	5/21/14	17:26
Relinq <u>ed by:</u> 			Received by:		
Relinq <u>ed by:</u> 			Received by:		
Relinq <u>ed by:</u> 			Received by:		

LAB COPIES - WHITE & YELLOW; CLIENT COPY - PINK

IACOCs2013 COC

# BOTTLES & PRESERVATIVES					
HCl	NaOH	MeOH	NaOH	H2SO4	Other
					None
					Encore

NY TOGS	Other (specify):
NY CP51	
NY Part 375 Restricted	
NY Part 375 Unrestricted	

Comments:

Lab Case # 4618
 PAGE: 1 of 2

01/2013 rev

PROJECT INFORMATION

E14-04618: ARSYNCO

To: Jim Clabby
 JMC Environmental Consultants
 Fax: 1(732) 295-2150
 EMail: jclabby@jmcenvironmental.com; ah

Report To

JMC Environmental Consultants
 2109 Bridge Avenue
 Building B
 Point Pleasant, NJ 08742
 Attn: Jim Clabby

Bill To

JMC Environmental Consultants
 Aceto Corp.
 4 Tri Harbor Court
 Port Washington, NY 11050
 Attn: Mr. Ed Kelly

Report Format	P.O. #	Received At Lab	TPHC Due	Verbal Due	Hardcopy Due
Reduced	22126	May 21, 2014 @ 17:26	NA	Jun 06, 2014	Jun 12, 2014 *

* Any *Conditional or Hold* status will delay final hardcopy report sent date.

Diskette Req. SRP TXT

** QC Requirement (must meet): NJ SRS

Lab ID	Client Sample ID	Depth	Sampling Time	Matrix	Unit	Field pH/Temp
04618-001	A-1 (0-2.0)	0/2	05/21/14@09:45	Soil	mg/Kg (ppm)	
04618-002	A-1 (2.0-4.0)	2/4	05/21/14@09:47	Soil	mg/Kg (ppm)	
04618-003	A-2 (0-2.0)	0/2	05/21/14@10:15	Soil	mg/Kg (ppm)	
04618-004	A-2 (2.0-4.0)	2/4	05/21/14@10:18	Soil	mg/Kg (ppm)	
04618-005	A-3 (0-2.0)	0/2	05/21/14@10:47	Soil	mg/Kg (ppm)	
04618-006	I-1 (0-2.0)	0/2.0	05/21/14@11:18	Soil	mg/Kg (ppm)	
04618-007	Y-49 (2.0-3.0)	2/3	05/21/14@12:18	Soil	mg/Kg (ppm)	
04618-008	Z-50 (2.0-3.0)	2/3	05/21/14@13:15	Soil	mg/Kg (ppm)	
04618-009	Y-51 (2.0-3.0)	2/3	05/21/14@13:55	Soil	mg/Kg (ppm)	
04618-010	D-1 (0-2.0)	0/2	05/21/14@14:45	Soil	mg/Kg (ppm)	
04618-011	C-2 (0-2.0)	0/2	05/21/14@14:32	Soil	mg/Kg (ppm)	
04618-012	FB-1	NA	05/21/14@14:55	Aqueous	mg/L (ppm)	

Sample #	Test	Status	QA Method	TAT	Holding Time Expires
001	TCL PCB	Analyze	8082A	STD/2 WKS	6/4/2014
002	TCL PCB	Analyze	8082A	STD/2 WKS	6/4/2014
003	TCL PCB	Analyze	8082A	STD/2 WKS	6/4/2014
004	TCL PCB	Analyze	8082A	STD/2 WKS	6/4/2014
005	TCL PCB	Analyze	8082A	STD/2 WKS	6/4/2014
006	GC Project Revision	Analyze	8082A	STD/2 WKS	6/4/2014
	TCL PCB	Analyze	8082A	STD/2 WKS	6/4/2014
007	TCL PCB	Analyze	8082A	STD/2 WKS	6/4/2014
008	TCL PCB	Analyze	8082A	STD/2 WKS	6/4/2014
009	TCL PCB	Analyze	8082A	STD/2 WKS	6/4/2014



PROJECT INFORMATION

E14-04618: ARSYNCO

Sample #	Test	Status	QA Method	TAT	Holding Time Expires
010	TCL PCB	Analyze	8082A	STD/2 WKS	6/4/2014
011	TCL PCB	Analyze	8082A	STD/2 WKS	6/4/2014
012	TCL PCB	Analyze	8082A	STD/2 WKS	5/28/2014

Project Notes:
REV 1 taken by kim on 05/23/2014 03:25

PER CHRIS CHO, SAMPLE ID FOR 006 SHOULD BE 1-1 (0-2.0).

INTEGRATED ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIPT VERIFICATION

CASE NO: E 14

04618

CLIENT:

JMC

COOLER TEMPERATURE: 2° - 6°C:

(See Chain of Custody)

ArSync

Comments

COC: **COMPLETE** / INCOMPLETE
KEY

- = YES/NA
 = NO

VOA received: Encore IGW - Methanol
(check one) Terra Core No Preservative

- Bottles Intact
 no-Missing Bottles
 no-Extra Bottles

- Sufficient Sample Volume
 no-headspace/bubbles in VOs
 Labels intact/correct
 pH Check (exclude VOs)¹
 Correct bottles/preservative
 Sufficient Holding/Prep Time¹
- Multiphasic Sample
 Sample to be Subcontracted
 Chain of Custody is Clear

¹ All samples with "Analyze Immediately" holding times will be analyzed by this laboratory past the holding time. This includes but is not limited to the following tests: pH, Temperature, Free Residual Chlorine, Total Residual Chlorine, Dissolved Oxygen, Sulfite.

ADDITIONAL COMMENTS: _____

SAMPLE(S) VERIFIED BY:

INITIAL

fr

DATE

5/22/14

CORRECTIVE ACTION REQUIRED:

YES

(SEE BELOW)

NO

If COC is NOT clear, **STOP** until you get client to authorize/clarify work.

CLIENT NOTIFIED:

YES

Date/ Time:

NO

PROJECT CONTACT:

SUBCONTRACTED LAB:

DATE SHIPPED:

ADDITIONAL COMMENTS:

VERIFIED/TAKEN BY:

INITIAL

Kay

DATE

5/22/14

E14-04618 0100

REV 03/2013

Laboratory Custody Chronicle

IAL Case No.

E14-04618

Client JMC Environmental Consultants

Project ARSYNCO

Received On 5/21/2014@17:26

Department: GC

			<u>Prep. Date</u>	<u>Analyst</u>	<u>Analysis Date</u>	<u>Analyst</u>
TCL PCB	04618-001	Soil	5/22/14	Archimede	5/22/14	Nicole
"	-002	"	5/22/14	Archimede	5/22/14	Nicole
"	-003	"	5/22/14	Archimede	5/22/14	Nicole
"	-004	"	5/22/14	Archimede	5/22/14	Nicole
"	-005	"	5/22/14	Archimede	5/22/14	Nicole
"	-006	"	5/22/14	Archimede	5/22/14	Nicole
"	-007	"	5/22/14	Archimede	5/22/14	Nicole
"	-008	"	5/22/14	Archimede	5/22/14	Nicole
"	-009	"	5/22/14	Archimede	5/22/14	Nicole
"	-010	"	5/22/14	Archimede	5/22/14	Nicole
"	-011	"	5/22/14	Archimede	5/22/14	Nicole
"	-012	Aqueous	5/22/14	Archimede	5/23/14	Nicole

E14-04618 01.01
May 28, 2014 @ 03:35

Page 1 of 1